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# Annual Course Listing 1969-1970

Office of the Registrar  
Southern Illinois University  
Edwardsville, Illinois






## ANNUAL COURSE LISTING

Fall	1969
Winter	1970
Spring	1970
Summer	1970

Southern Illinois University  
at  
Edwardsville



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The Annual Course Listing includes all courses which are to be taught from fall, 1969 through summer, 1970. Time, location, and number of sections will be produced in the quarterly Schedule of Classes available approximately on the following dates:

Fall, 1969 - August 1, 1969

Winter, 1970 - November 1, 1969

Spring, 1970 - February 1, 1970

Summer, 1970 - March 15, 1970

UNIVERSITY CALENDAR  
Edwardsville Campus

Fall Quarter, 1969

New Student Week	Sunday-Tuesday, September 21-23
Quarter Begins	Wednesday, September 24
Thanksgiving Vacation	Tuesday 10 P.M.-Monday 8:00 A.M., November 25-December 1
Final Examinations	Monday-Saturday, December 15-20

Winter Quarter, 1970

Quarter Begins	Monday, January 5
Final Examinations	Monday-Saturday, March 16-21

Spring Quarter, 1970

Quarter Begins	Monday, March 30
Memorial Day Holiday	Friday, May 29
Final Examinations	Monday-Saturday, June 8-13
Commencement	Saturday, June 13

Summer Quarter, 1970

Quarter Begins	Monday, June 22
Independence Day Holiday	Friday, July 3
Final Examinations	Monday-Friday, August 31- September 4
Commencement	Friday, September 4

ANNUAL COURSE LISTING  
Fall, 1969 through Summer, 1970

<u>Course</u>	<u>Offered</u>	<u>Hrs.</u>	<u>Title</u>
GENERAL STUDIES AREA A			
A 101A	F W Sp S	5	Introduction to Physical Science
A 101C	F W Sp S	3	Introduction to Physical Science
A 110A	F W Sp S	4	Earth and Its Environment
A 110B	F W Sp S	4	Earth and Its Environment
A 201A	F Sp S	4	Man's Biological Inheritance
A 201B	W Sp S	4	Man's Biological Inheritance
A 312	F W Sp S	3	Conservation of Natural Resources
A 322	F Sp	3	Rocks and Minerals
A 328	F	3	Human Reproduction
A 330	F W Sp S	3	Weather
A 331	F W Sp S	3	Climate
A 350	F W Sp S	3	Atomic Energy
A 352	F W Sp	3	Radiation and Life
A 356	F W Sp S	3	Astronomy
A 363A	F W Sp S	3	Philosophy of Science
A 363B	W Sp	3	Philosophy of Science
A 365	F	3	Human Origins
GENERAL STUDIES AREA B			
B 101B	F W Sp S	4	Survey of Western Tradition
B 101C	F W Sp S	4	Survey of Western Tradition
B 103A	F W Sp S	4	Sociology-Economics
B 103B	F W Sp S	4	Sociology-Economics
B 201A	F W Sp S	4	Individual and His Cult. Environment
B 201C	F W Sp S	4	Individual and His Cult. Environment
B 203A	F W Sp S	4	Amer. Politics in the World Environment
B 203B	F W Sp S	4	Amer. Politics in the World Environment
B 300A	F W Sp S	3	History of U.S.
B 300B	F W Sp S	3	History of U.S.
B 300C	F W Sp S	3	History of U.S.
B 311	F Sp	3	Economic Development of the U.S.
B 312	W S	3	Comparative Economic Systems
B 318A	W	3	American State and Local Govt.
B 318B	Sp	3	American State and Local Govt.
B 331	F W Sp S	3	Amer. Educational Systems
B 341	F W Sp S	3	Marriage
B 351A	F	3	Geographic and Cult. Background of Developing Africa
B 369	Sp	3	Contemporary Far East
B 388	F W Sp S	3	Communism
GENERAL STUDIES AREA C			
C 151	F W Sp S	3	Introduction to Poetry
C 155	F W Sp S	5	Introduction to Art
C 156	F W Sp S	5	Intro. to Music History-Literature



<u>Course</u>	<u>Offered</u>	<u>Hrs.</u>	<u>Title</u>
GSC 157	F W Sp S	5	Dramatic Media
GSC 158	Sp	5	The Fine Arts
GSC 252	F W Sp S	4	Logic
GSC 253	F W Sp S	4	Literary Masterpieces of Antiquity
GSC 254	F W Sp S	4	Philosophical Masterpieces
GSC 313	F Sp S	3	Folklore
GSC 315	F W	3	Studies in Biography
GSC 333	F Sp	3	Bible as Literature
GSC 335	F W Sp S	3	Studies in Short Fiction
GSC 337	F W Sp	3	English Language Heritage
GSC 339	F W Sp	3	Classical Mythology
GSC 345B	F Sp	3	Masterpieces of World Literature
GSC 345C	W	3	Masterpieces of World Literature
GSC 354A	F Sp S	3	History of the Theater
GSC 354B	F W S	3	History of the Theater
GSC 354C	W Sp	3	History of the Theater
GSC 357	W S	3	History of Music Literature
GSC 360A	W	3	Arts and Ideals in Famous Cities
GSC 360B	Sp	3	Arts and Ideals in Famous Cities
GSC 363A	F W Sp S	3	Philosophies of Science
GSC 363B	W Sp	3	Philosophies of Science
GSC 370A	F	3	American Art
GSC 370B	W	3	American Art
GSC 370C	Sp	3	American Art
GSC 375A	F W Sp S	3	Ethics
GSC 390	W Sp	3	Existentialism
GSC 391	W	3	Praaumatism

#### GENERAL STUDIES AREA D

GSD 101A	F W Sp S	3	English Composition
GSD 101B	F W Sp S	3	English Composition
GSD 103	F W Sp S	3	Oral Communication of Ideas
GSD 112A	F W S	4	Introduction to Mathematics
GSD 112B	F W Sp	5	Introduction to Mathematics
GSD 114A	F W Sp S	5	College Algebra and Trigonometry
GSD 114C	F W Sp S	4	College Algebra and Trigonometry
GSD 114D	F W Sp S	4	Statistics
GSD 123A	F W S	3	Elementary French
GSD 123B	W Sp S	3	Elementary French
GSD 123C	Sp S	3	Elementary French
GSD 126A	F W S	3	Elementary German
GSD 126B	W Sp S	3	Elementary German
GSD 126C	Sp S	3	Elementary German
GSD 136A	F	3	Elementary Russian
GSD 136B	W	3	Elementary Russian
GSD 136C	Sp	3	Elementary Russian
GSD 140A	F W S	3	Elementary Spanish
GSD 140B	W Sp S	3	Elementary Spanish
GSD 140C	Sp S	3	Elementary Spanish
GSD 144A	F	3	Elementary Italian
GSD 144B	W	3	Elementary Italian
GSD 144C	Sp	3	Elementary Italian

#### GENERAL STUDIES AREA E

GSE 101D	Sp S	1	Life Saving
GSE 102	F W Sp	1	Physical Fitness Men
GSE 104C	W	1	Basketball

<u>Course</u>	<u>Offered</u>		<u>Hrs.</u>	<u>Title</u>
E 104F	F	Sp	1	Soccer
E 104N	F	Sp	1	Cross Country
E 104T	F	Sp	1	Touch Football
E 104U	F W		1	Wrestling
E 111D		Sp S	1	Life Saving
E 112	F W	Sp	1	Body Movement Women
E 114C		W	1	Basketball
E 114F	F	Sp	1	Soccer
E 114G	F		1	Speedball
E 114O	F	Sp	1	Physical Conditioning
E 115A	F W	Sp S	1	Restricted P.E. Men and Women
E 115B	F W	Sp S	1	Restricted P.E. Men and Women
E 115C	F W	Sp S	1	Restricted P.E. Men and Women
E 116A		Sp S	1	Beginning Swimming
E 116B		Sp S	1	Intermediate Swimming
E 117A	F W	Sp S	1	Square Dance
E 117B	F W	Sp S	1	Folk Dance
E 117C	F W	Sp S	1	Social Dance
E 117D	F W	Sp S	1	Beginning Contemporary Dance
E 117E	F W	Sp S	1	Intermediate Contemporary Dance
E 117F	F W	Sp S	1	Basic Rhythms
E 118A	F W	Sp S	1	Archery
E 118B		W Sp	1	Badminton
E 118D	F W	Sp S	1	Bowling
E 118E	F	Sp S	1	Golf
E 118F		W Sp	1	Billiards
E 118H	F	Sp S	1	Tennis
E 118I	F W	Sp S	1	Volleyball
E 118L		S	1	Sailing
E 118M		W Sp	1	Fencing
E 118O		S	1	Boating and Canoeing
E 118R		W Sp	1	Stunts and Tumbling
E 118S		W Sp	1	Gymnastics
E 118W		Sp	1	Track and Field
E 118Z	F W	Sp	1	Recreation Sports
E 201	F W	Sp S	3	Healthful Living

#### ACCOUNTING

ECT 230	F	Sp	4	Accounting Principles
ECT 231		W Sp S	4	Financial Accounting
ECT 330	F W	Sp	4	Managerial Cost and Budgeting
ECT 331	F W	Sp	4	Principles of Income Taxation
ECT 341	F W	Sp	4	Cost Accounting
ECT 351A	F W	Sp	4	Accounting Theory and Problems I
ECT 351B		W Sp S	4	Accounting Theory and Problems II
ECT 453		W Sp S	4	Advanced Accounting Problems
ECT 456		W Sp S	4	Auditing
ECT 530		Sp	4	Conceptual Framework of Accounting
ECT 533	F		4	Managerial Accounting
ECT 538		S	4	Seminar in Accounting

#### AEROSPACE STUDIES

S 300	F W	Sp		Corps Training
S 301	F		3	Aerospace Power
S 302		W	3	Aerospace Power
S 303		Sp	3	Aerospace Power
S 350		Sp	2	Flight Navigation

<u>Course</u>	<u>Offered</u>	<u>Hrs.</u>	<u>Title</u>
ANTHROPOLOGY			
ANTH 305A	W	3	Peoples and Cultures of the World I
ANTH 305B	Sp	3	Peoples and Cultures of the World I
ANTH 367	W	3	Growth of New World Civilization
ANTH 400	F Sp	4	Man and Culture
ANTH 408	W	4	History of Anthropological Thought
ANTH 424	W	4	Culture and Personality
ANTH 432	Sp	4	Archaeology of the Midwest
ANTH 452	Sp	4	Political Anthropology
ANTH 482	Sp	4	Indians of the Plains
ANTH 483	F W Sp S	4	Individual Study in Anthropology
ANTH 507A	F	3	Pro-seminar in Social Anthropology
ANTH 586	F W Sp S	3-12	Advanced Readings in Anthropology

#### ART

ART 100A	F W Sp S	5	Basic Studio
ART 100B	F W Sp S	5	Basic Studio
ART 100C	F W Sp S	5	Basic Studio
ART 202A	F W Sp	5	Intermediate Studio I
ART 202B	F W Sp S	5	Intermediate Studio II
ART 202C	F W Sp S	5	Intermediate Studio III
ART 225A	F	3	History of World Art
ART 225B	W	3	History of World Art
ART 225C	Sp	3	History of World Art
ART 300A	F W Sp S	4	Art Education
ART 300B	F W Sp S	4	Art Education
ART 300C	Sp	4	Art Education
ART 305A	F W Sp S	4	Advanced Ceramics
ART 305B	F W Sp S	4	Advanced Ceramics
ART 305C	F W Sp S	4	Advanced Ceramics
ART 310A	F W Sp S	4	Painting
ART 310B	F W Sp S	4	Painting
ART 310C	F W Sp S	4	Painting
ART 312A	W	4	Design I
ART 312B	Sp	4	Design II
ART 325A	F W Sp S	4	Studio
ART 325B	F W Sp S	4	Studio
ART 325C	F W Sp S	4	Studio
ART 349	F	3	Renaissance and Baroque Art
ART 358A	F W Sp S	4	Prints
ART 358B	F W Sp S	4	Prints
ART 358C	F W Sp S	4	Prints
ART 365	F Sp	4	Art Educ. in the Secondary School
ART 393A	F W Sp S	4	Sculpture
ART 393B	F W Sp S	4	Sculpture
ART 393C	F W Sp S	4	Sculpture
ART 401	F W Sp S		Research in Painting
ART 405	F W Sp S		Studio in Sculpture
ART 406	F W Sp S		Studio in Painting
ART 416	F W Sp S		Studio in Prints
ART 426	F W Sp S		Studio in Pottery
ART 441	F Sp S		Studio in Drawing
ART 460	F W Sp		Research in Art Education
ART 466	W Sp		Studio in Art Education
ART 483	F W Sp S		Research in Art History
ART 501	F W Sp S		Seminar in Painting



<u>Course</u>	<u>Offered</u>	<u>Hrs.</u>	<u>Title</u>
T 502	F W Sp S		Seminar in Sculpture
T 511	F W Sp S		Seminar in Prints
T 520	F W Sp S		Seminar in Pottery
T 560	F W Sp S		Seminar in Art Education
T 566	F W Sp S		Research in Art Education
T 571	F W Sp S		Readings in Art History
T 599	F W Sp S		Thesis

## BIOLOGY

OL 301A	F		4	Concepts at the Cellular Level
OL 301B	W		4	Concepts at the Cellular Level
OL 301C		Sp	4	Concepts at the Cellular Level
OL 302A	F		5	Concepts at the Organism Level
OL 302B	W		5	Concepts at the Organism Level
OL 302C		Sp	5	Concepts at the Organism Level
OL 302D		Sp	5	Concepts at the Organism Level
OL 303A	F		4	Concepts at the Population Level
OL 303B	W		3	Concepts at the Population Level
OL 303C		Sp	4	Concepts at the Population Level
OL 310A	W	S	4	Human Anatomy and Physiology
OL 310B	W	S	2	Human Anatomy and Physiology
OL 311	F	Sp	5	Applied Bacteriology
OL 390A	F		0-1	Undergraduate Biology Seminar
OL 390B	W		0-1	Undergraduate Biology Seminar
OL 390C		Sp	0-1	Undergraduate Biology Seminar
OL 415	W		4	Experimental Embryology
OL 441	F		3	Mammalian Physiology
OL 442	F		1	Mammalian Physiology Laboratory
OL 447	F		4	Topics in Plant Physiology
OL 458	W		5	Functional Morphology of Vertebrates
OL 493	F W Sp S			Research in Biology
OL 501	F		2	Research Orientation
OL 504B	F		3	Instructional Innovation in Secondary School Biology
OL 580	F		4	Advanced Invertebrates
OL 581	W		4	Helminthology
OL 590A	F		1	Graduate Biology Seminar
OL 590B	W		1	Graduate Biology Seminar
OL 590C		Sp	1	Graduate Biology Seminar
OL 591	F W Sp S			Readings in Biology
OL 593	F W Sp S			Special Problems in Biology
OL 599	F W Sp S			Research and Thesis

## BUSINESS COMMUNICATIONS

390	F	Sp	4	Business Communications
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## CHEMISTRY

CEM 110	W		4	General and Inorganic Chem.
CEM 111A	F W	S	5	Chem. Principles and Inorg. Chem.
CEM 111B	F W Sp		5	Chem. Principles and Inorg. Chem.
CEM 111C	W Sp S		5	Chem. Principles and Inorg. Chem.
CEM 235	F	Sp S	5	General Quantitative Analysis
CEM 240		Sp	4	Organic Chemistry
CEM 250			4	Biochemistry and Nutrition
CEM 305A	F		3	Organic Chem., Preprofessional

<u>Course</u>	<u>Offered</u>	<u>Hrs.</u>	<u>Title</u>
CHEM 305B	W	3	Organic Chem., Preprofessional
CHEM 311	S	3	Inorganic Chemistry
CHEM 336		4	Analytical Chem.
CHEM 341A	F	3	Organic Chemistry
CHEM 341B	W	3	Organic Chemistry
CHEM 341C	Sp	3	Organic Chemistry
CHEM 345A	F W Sp	2	Organic Chemistry Lab.
CHEM 345B	F W Sp	2	Organic Chemistry Lab.
CHEM 345C	F W Sp	2	Organic Chemistry Lab.
CHEM 375	F W Sp S		Chemistry Seminar
CHEM 411	Sp	4	Intermediate Inorganic Chem.
CHEM 412	S	3	Inorganic Preparation
CHEM 432A	W	4	Instrumental Analytical Measurements
CHEM 432B	Sp	4	Instrumental Analytical Measurements
CHEM 433	F	3	Intermediate Quantitative Analysis
CHEM 444	F	3	Organic Reactions
CHEM 446	W	4	Qualitative Organic Analysis
CHEM 447		3	Quantitative Organic Chem.
CHEM 451A	W	3	Biochemistry
CHEM 451B	Sp	3	Biochemistry
CHEM 455A	W	1	Experimental Methods in Biochemistry
CHEM 455B	Sp	1	Experimental Methods in Biochemistry
CHEM 460	S	5	Theoretical Chemistry
CHEM 461A	F	4	Physical Chemistry
CHEM 461B	W	4	Physical Chemistry
CHEM 461C	Sp	4	Physical Chemistry
CHEM 464		3	Intermediate Physical Chemistry
CHEM 490	F	2	Chemical Literature
CHEM 496	F W Sp S		Chemical Problems
CHEM 511A	W	3	Advanced Inorganic Chemistry
CHEM 511B		3	Advanced Inorganic Chemistry
CHEM 511C		3	Advanced Inorganic Chemistry
CHEM 517		3	Lab. Techniques in Inorganic Chem.
CHEM 519	Sp		Advanced Topics in Inorganic Chem.
CHEM 531	Sp	3	Theory of Quantitative Analysis
CHEM 539			Advanced Topics in Analytical Chem.
CHEM 541	Sp	3	Advanced Organic Chemistry
CHEM 547			Advanced Lab. Preparations in Organic Chemistry
CHEM 549	W		Advanced Topics in Organic Chem.
CHEM 561		3	Chemical Thermodynamics
CHEM 562	F	3	Atomic and Molecular Structure
CHEM 569		S	Advanced Topics in Physical Chem.
CHEM 575	F W Sp S		Graduate Seminar
CHEM 597	F W Sp S		Research and Thesis

#### CHILD CARE SERVICES

CCS 101	S	4	Child Care
CCS 103	Sp	2	Child and Nutrition
CCS 105		3	Language Arts
CCS 107	W	2	Health and First Aid
CCS 109A	W	2	Personal Interaction
CCS 109B	Sp	3	Personal Interaction
CCS 111	F	2	Audio-Visual Aids
CCS 115	F	2	Art and Music
CCS 117A	W	3	Science and Nature
CCS 117B	Sp	3	Science and Nature
CCS 203		3	Parent and Community
CCS 207	Sp	4	Administration of Preschool Centers

<u>Course</u>	<u>Offered</u>	<u>Hrs.</u>	<u>Title</u>
CS 209	S	4	Preschool Practicum
CS 211	S	4	Socially Disadvantaged Child

#### COUNSELOR EDUCATION

ED 305	F W Sp S	4	Educational Psychology
ED 410A	F	2	Campus Leadership
ED 410B	W	2	Campus Leadership
ED 420	F W Sp S	4	Educational Statistics
ED 422	F W Sp S	4	Educational Measurements I
ED 426	F	4	Individual Inventory
ED 483	F	6	Prevention of Juvenile Delinquency
ED 485	F		Educational Utilization of Community Resources
ED 501	F W Sp S		Special Research Problems
ED 510	F Sp	4	Student Personnel Services
ED 511	F W Sp S	4	Educational Implications of Learning Theories
ED 515	F W Sp S	4	Psychological Aspects of Education
ED 520A	F	4	Educ. Statistics and Experimental Design
ED 520B	W	4	Educ. Statistics and Experimental Design
ED 522	F W Sp	4	Educational Measurements II
ED 525	F W Sp S	4	School Behavior Problem Prevention
ED 526	F	4	Techniques of Individual Guidance
ED 528	W	4	Advanced Guidance of the Individual
ED 535	F Sp	4	Intro. to Individual Measurement
ED 536A	F	4	Appraisal of Intelligence: Child
ED 536B	W	4	Appraisal of Intelligence: Child and Adult
ED 536C	Sp	4	Appraisal of Intelligence
ED 537	F W Sp S	4	Counseling Theory and Practice I
ED 538	F W Sp S	4	Counseling Theory and Practice II
ED 541	F W Sp S	4	Occupational Info. and Guidance
ED 542	F W Sp S	4	Basic Principles of Guidance
ED 543	F W Sp S	4	Guidance Through Groups
ED 545A	F W Sp S	4	Seminar: Problems in Guidance
ED 545B	F Sp		Seminar: Learning and Communication
ED 545F	F W Sp	4	Seminar: Pupil Adjustment
ED 545J	F W Sp S	4	Seminar: Organization and Admin.
ED 562A	F W Sp S	4	Child Development in Education
ED 562B	F W Sp S	4	Adolescent Development in Education
ED 575C	F W Sp S		Practicum in Guidance
ED 576	Sp S		Practicum in School Personnel Work

#### HEAN'S COLLEGE

C 101A	F	4	Honors Hours
C 101B	W	4	Honors Hours
C 101C	Sp	4	Honors Hours
C 201A	F	4	Honors Hours
C 201B	W	4	Honors Hours
C 201C	Sp	4	Honors Hours
C 301A	F	4	Honors Hours
C 301B	W	4	Honors Hours
C 301C	Sp	4	Honors Hours
C 401A	F	4	Honors Hours



<u>Course</u>	<u>Offered</u>	<u>Hrs.</u>	<u>Title</u>
D C 401B	W	4	Honors Hours
D C 401C	Sp	4	Honors Hours

#### ECONOMICS

ECON 200	F W Sp S	4	Macroeconomics
ECON 201	F W Sp S	4	Microeconomics
ECON 300	F W Sp S	4	Monetary System and Economic Policy
ECON 310	F W	4	Labor Problems
ECON 317	F	4	Economic History of the U.S.
ECON 330	F	4	Public Finance I: National
ECON 340	F W S	4	Intermediate Micro Theory
ECON 411	W	4	Collective Bargaining and Dispute Settlement
ECON 416	W	4	Money and Banking II
ECON 418	W	4	Economic History of Europe
ECON 422	Sp	4	Introduction to Econ. Development
ECON 429	W S	4	International Economics
ECON 430	F	4	Regional Economy
ECON 431	W	3	Public Finance II: State and Local
ECON 432	Sp	3	Fiscal Policy of the U.S.
ECON 436	Sp	3	Government and Labor
ECON 441	F W	4	Intermediate Macro Theory
ECON 450A	F	3	History of Economic Thought
ECON 450B	Sp	3	History of Economic Thought
ECON 465	F	4	Mathematical Economics I
ECON 467	W S	4	Econometrics I
ECON 472	Sp	4	Dynamic Economics: Fluctuations and Growth
ECON 473	Sp	4	Business Enterprise and Public Policy
ECON 481	S	4	Comparative Economic Systems
ECON 504	W	4	Economic Analysis
ECON 505	F	4	Theory of the Firm
ECON 512	W	4	Labor Economics
ECON 516	Sp	4	Econometrics II
ECON 517	Sp	4	Monetary Theory and Policy
ECON 519	Sp	4	Economic Growth
ECON 520	Sp	4	Economic Development Theory and Policy
ECON 530	Sp	4	International Economics and Finance
ECON 533	Sp	4	Public Finance Theory and Practice
ECON 541	F	4	National Income Theory
ECON 542	F	4	Price Theory
ECON 543	W	4	Seminar in Economic Policy
ECON 561	F	4	Advanced Topics in Economic History
ECON 566	W	4	Mathematical Economics II
ECON 582	W	4	Economic Behavior

#### EDUCATION ADMINISTRATION

EDAD 355	F W Sp S	4	Philosophy of Education
EDAD 420	W S	4	Legal Basis of Amer. Education
EDAD 431	W S	4	History of Education in the U.S.
EDAD 432		4	Public Opinion: Propaganda and Educ.
EDAD 434	F W Sp S	4	Administrator's Workshop
EDAD 456	F W Sp S	4	School Supervision
EDAD 480	F W Sp S	4	Backgrounds of Urban Education
EDAD 490	S		International Field Study in Comparative Education

<u>Course</u>	<u>Offered</u>	<u>Hrs.</u>	<u>Title</u>
DAD 500	F W Sp S	4	Research Methods
DAD 501	F W Sp S	4	Seminar in Educ. Administration
DAD 502	W	4	Seminar in Comparative Education
DAD 503	F W Sp S		Seminar in Philosophy of Education
DAD 504		4	Seminar in History of European Educ.
DAD 506	F S	4	Seminar: Curriculum and American Culture
DAD 511A	F W Sp S	4	Internship Practicum
DAD 511B	F W Sp S	4	Internship Practicum
DAD 511C	F W Sp S	4	Internship Practicum
DAD 520	F Sp	4	Illinois School Law
DAD 524	F W Sp S	4	School Administration
DAD 525	W S	4	Personnel Administration
DAD 533	W S	4	School Buildings
DAD 534A	F Sp	4	School Finance
DAD 534B	W S	4	School Business Administration
DAD 551	F W Sp	4	Community Jr. College Curriculum
DAD 553	F W Sp		Practicum in Urban Education
DAD 554	F W Sp S	4	Contrasting Philosophies of Educ.
DAD 556	W S	4	Seminar in Educ. Supervision
DAD 557	F Sp	4	Elementary Principalship
DAD 560	F W Sp S	4	Curriculum
DAD 563	F Sp	4	Workshop in School Public Relations
DAD 565	F W Sp S	4	The Jr. College
DAD 575A	F W Sp S	2-4	Individual Research: Curriculum
DAD 575B	F W Sp S		Individual Research: Supervision
DAD 575C	F W Sp S		Individual Research: Buildings
DAD 575D	F W Sp S		Individual Research: Finance
DAD 575E	F W Sp S		Individual Research: School Law
DAD 575F	F W Sp S		Individual Research: Compar. Educ.
DAD 575G	F W Sp S		Individual Research: History of Educ.
DAD 575H	F W Sp S		Individual Research: Philosophy of Education
DAD 575J	F W Sp S		Individual Research: Administration
DAD 575K	F W Sp S		Individual Research: Elem. Admin.
DAD 596	F W Sp S		Administration
DAD 597	F W Sp S		Thesis

#### ELEMENTARY EDUCATION

DEL 203	F W Sp	3	Understanding El. School Child
DEL 314	F W Sp S	4	Elem. School Methods
DEL 316	W	4	Kindergarten-Primary Methods
DEL 337	F W Sp S	4	Reading in Elem. Schools
DEL 350D	F W Sp S		Kindergarten-Primary Student Teaching
DEL 350E	F W Sp S		Adv. Kindergarten-Primary Student Teaching
DEL 351D	F W Sp S		Elementary Student Teaching
DEL 351E	F W Sp S		Adv. Elem. Student Teaching
DEL 413	F W Sp S	4	Children's Literature
DEL 415	F W Sp S	4	Improvement of Instruction in Arithmetic in the Elem. School
DEL 433		4	Workshop in Elem. Education
DEL 437		4	Problems in Reading
DEL 442	F W Sp S	4	Science for Elem. Teacher
DEL 470		3	Workshop in Sex Education for Elementary Teachers
DEL 480	F W Sp	4	Backgrounds of Urban Education
DEL 505	F W Sp S	4	Improvement of Reading Instruction

<u>Course</u>	<u>Offered</u>	<u>Hrs.</u>	<u>Title</u>
EDEL 507	F W Sp S		Readings in Reading
EDEL 509	F W Sp S		Practicum in Reading
EDEL 513	F W Sp S	4	Assessment of the Disabled
EDEL 514	W	4	Organization and Admin. of Reading Programs
EDEL 515	Sp	4	Problems in El. School Arithmetic
EDEL 518	F S		Supervision of Student Teachers
EDEL 521A	F Sp S	4	Diagnosis and Correction of Reading Disabilities
EDEL 521B	F W S	4	Diagnosis and Correction of Reading Disabilities
EDEL 521C	W Sp	4	Diagnosis and Correction of Reading Disabilities
EDEL 541	S	4	Problems in El. School Science
EDEL 542	F W Sp S	4	Lan. Arts in El. School
EDEL 543	F W Sp S	4	Soc. Studies in El. School
EDEL 553	F W Sp		Practicum in Urban Education
EDEL 557	F W Sp S	4	Elementary Principalship
EDEL 559	S	4	Workshop in Instructional Leadership in Elementary Education
EDEL 561	F W Sp S	4	Elementary School Curriculum
EDEL 567A	F	4	Teaching Competencies and Application
EDEL 567B	W	4	Teaching Competencies and Application
EDEL 567C	Sp	4	Teaching Competencies and Application
EDEL 575A	F W Sp S		Individual Research: Curriculum
EDEL 575B	F W Sp S		Individual Research: Supervision
EDEL 575C	F W Sp S		Individual Research: Lan. Arts
EDEL 575D	F W Sp S		Individual Research: Science
EDEL 575E	F W Sp S		Individual Research: Reading
EDEL 575F	F W Sp S		Individual Research: Soc. Studies
EDEL 575G	F W Sp S		Individual Research: Elem. Educ.
EDEL 575H	F W Sp S		Individual Research: Arithmetic
EDEL 575J	F W Sp S		Individual Research: Problems K-P
EDEL 575K	F W Sp S		Individual Research: Elem. Admin.
EDEL 596	F W Sp S		Independent Investigation
EDEL 597	F W Sp S		Thesis
EDEL 598	F W Sp S		Thesis
EDEL 599	F W Sp S		Thesis

#### ENGINEERING

ENGR 101A	F W	3	Engineering Graphics
ENGR 101B	W Sp	3	Engineering Graphics
ENGR 101C	Sp	3	Engineering Graphics
ENGR 200A	F	3	Circuit Analysis
ENGR 200B	W	3	Circuit Analysis
ENGR 200C	Sp	3	Circuit Analysis
ENGR 201A	F	1	Circuit Analysis Lab.
ENGR 201B	W	1	Circuit Analysis Lab.
ENGR 201C	Sp	1	Circuit Analysis Lab.
ENGR 230	W	3	Engineering Geology
ENGR 260A	W	4	Engineering Mechanics
ENGR 260B	Sp	4	Engineering Mechanics
ENGR 300	F	3	Thermodynamics
ENGR 310A	W	3	Physical Electronics
ENGR 310B	Sp	3	Physical Electronics
ENGR 311A	F	3	Engineering Materials



<u>Course</u>	<u>Offered</u>	<u>Hrs.</u>	<u>Title</u>
GR 311B	W	3	Engineering Materials
GR 312A	F	1	Engineering Materials Lab.
GR 312B	W	1	Engineering Materials Lab.
GR 314A		3	Soils Engineering
GR 314B		3	Soils Engineering
GR 315		3	Substructure Analysis
GR 340A		4	Structural Analysis I
GR 340B		4	Structural Analysis II
GR 363A	Sp	3	Surveying
GR 363B	F S	3	Surveying
GR 375			Seminar
GR 380A		4	Environmental Engineering I
GR 380B		4	Environmental Engineering II
GR 380C		4	Environmental Engineering III
GR 395	F W Sp		Readings in Engineering
GR 405A	Sp	4	Generalized Radiation
GR 405B	Sp	1	Generalized Radiation Lab.
GR 410A	F	4	Electron Devices
GR 410B	W	4	Electron Devices
GR 411A	F	1	Electron Devices Lab.
GR 411B	W	1	Electron Devices Lab.
GR 420A	W	3	Transport Phenomena
GR 420B	Sp	3	Transport Phenomena
GR 421	W	1	Fluid Dynamics Lab.
GR 423		3	Hybrid Computation
GR 440A		4	Structural Analysis III
GR 440B		4	Structural Analysis IV
GR 442		4	Concrete Structures
GR 443A	W S	3	Engineering Design
GR 443B	Sp S	3	Engineering Design
GR 460A		4	Engineering Analysis for Decision Making
GR 460B		4	Engineering Analysis for Decision Making
GR 470A	F	4	Geodesy
GR 470B	W	4	Geodesy
GR 470C	Sp	4	Geodesy
GR 472	F W	3	Digital Computers in Research
GR 475		3	Transportation Engineering
GR 476		3	Highway Planning
GR 477		3	Construction Engineering
GR 480A		4	Urban Systems Engineering
GR 480B		4	Urban Systems Engineering
GR 523		3	Digital Simulation Techniques
GR 524A		3	Linear and Non-Linear Programming
GR 524B		3	Linear and Non-Linear Programming
GR 525		3	Analog and Digital Methods
GR 526		3	Simulation and Data Processing
GR 531A		4	Operations Analysis and Synthesis
GR 531B		4	Operations Analysis and Synthesis
GR 533		3	Program Evaluation and Review Techniques
GR 560A		4	Automatic Control Theory
GR 560B		4	Automatic Control Theory
GR 590			Readings in Engineering

#### GLISH

G 300	F W Sp S	4	Principles of Grammar
G 302A	F W Sp S	4	Survey of English Lit.

<u>Course</u>		<u>Offered</u>	<u>Hrs.</u>	<u>Title</u>
ENG	302B	F W Sp S	4	Survey of English Lit.
ENG	302C	F W Sp S	4	Survey of English Lit.
ENG	309A	F W Sp S	4	Survey of American Lit.
ENG	309B	F W Sp S	4	Survey of American Lit.
ENG	320		4	Early 19th Cen. Poetry
ENG	365	F W Sp S	4	Shakespeare
ENG	390	F Sp	3	Adv. Composition
ENG	391	F W Sp S	3	Usage in English
ENG	392	F W	3	Professional Writing I
ENG	400	W	4	Intro. to English Linguistics
ENG	403	Sp	4	History of Eng. Language
ENG	404A	F	4	Middle English Lit.
ENG	404B		4	Middle English Lit.
ENG	404C	W	4	Middle English Lit.
ENG	405A	F	4	Descriptive Linguistics
ENG	405B	W	4	Descriptive Linguistics
ENG	412A	W	4	English Nondramatic Lit.
ENG	412B		4	English Nondramatic Lit.
ENG	412C	Sp	4	English Nondramatic Lit.
ENG	412D	F	4	English Nondramatic Lit.
ENG	420A	Sp	4	American Poetry to 1900
ENG	420B	W	4	Modern American Poetry
ENG	421A		4	Early Romantics
ENG	421B	F	4	Later Romantics
ENG	421C	Sp	4	Victorian Poetry
ENG	421D	Sp	4	Modern British Poetry
ENG	431A		4	Major Amer. Writers
ENG	431B	F	4	Major Amer. Writers
ENG	431C	Sp	4	Major Amer. Writers
ENG	438		4	Intellectual Backgrounds of American Lit.
ENG	441		4	18th Cen. Essay
ENG	442	Sp	4	Romantic Prose
ENG	443		4	Victorian Prose
ENG	447	W	4	Amer. Humor and Satire
ENG	454A		4	18th Cen. Novel
ENG	454B	W	4	Victorian Novel
ENG	454C	F	4	Cont. British Fiction
ENG	456		4	Modern Continental Fiction
ENG	458A	F	4	American Novel
ENG	458B	W	4	Contemporary Amer. Fiction
ENG	460A		4	Elizabethan Drama
ENG	460B	Sp	4	Jacobean Drama
ENG	460C	W	4	Restoration and 18th Cen. Drama
ENG	460D	F	4	Modern British Drama
ENG	464		4	Modern Continental Drama
ENG	468	Sp	4	American Drama
ENG	471A	F	4	Shakespeare
ENG	471B	W	4	Shakespeare
ENG	473	Sp	4	Milton
ENG	485	F W Sp	4	Problems in Teaching English
ENG	486		S	Workshop in High School English
ENG	487			Workshop in Jr. High School English
ENG	488A	F	3	Teaching English as a For. Language
ENG	488B		3	Teaching English as a For. Language
ENG	488C		3	Teaching English as a For. Language
ENG	492	Sp	4	Professional Writing II
ENG	495A	F	4	Literary Criticism
ENG	495B	W	4	Literary Criticism
ENG	499	F W Sp S		Readings in English
ENG	500	F W	4	Materials and Methods of Research in English

<u>Course</u>	<u>Offered</u>	<u>Hrs.</u>	<u>Title</u>
NG 501	F	4	Old English Grammar
NG 502	W	4	Beowulf
NG 504	S	4	Advanced English Syntax
NG 508	Sp		Studies in Chaucer
NG 509A			Studies in Middle English Lit.
NG 509B			Studies in Middle English Lit.
NG 511			Studies in Renaissance
NG 513	W		Studies in 17th Cen. Lit.
NG 514			Studies in Restoration and 18th Century Lit.
NG 519	Sp		Studies in Contemporary British Lit.
NG 520	F		Studies in Romantic Writers
NG 521			Studies in Victorian Poetry
NG 524			Studies in the Metaphysical Poets
NG 531	W		Studies in American Col. Period
NG 532			Studies in Amer. Transcendentalism
NG 534	F		Early 19th Cen. Amer. Writers
NG 536	W		Later 19th Cen. Amer. Writers
NG 537			Studies in 20th Cen. Amer. Writers
NG 538	W		Problems in American Literature
NG 543			Victorian Nonfiction Prose
NG 555	F		Studies in the Victorian Novel
NG 560			Studies in Renaissance Drama
NG 566			Studies in Shakespeare
NG 569		4	Seminar in Problems of English as a Foreign Language
NG 579A			Studies in Modern Lit.
NG 579B			Studies in Modern Lit.
NG 580	F	4	Traditional Themes
NG 581A		4	Problems in High School English
NG 581B		4	Problems in High School English
NG 581C		4	Problems in High School English
NG 585	F Sp S		Teaching College Composition
NG 587	Sp	4	Literature for Young People
NG 597			Readings in Linguistics
NG 598	F W Sp S		Independent Review of English and American Literature
NG 599	F W Sp S		Thesis

#### EXPERIMENT IN HIGHER EDUCATION

101A	F			University Studies
101B	W			University Studies
101C	Sp			University Studies
101D		S		University Studies
201A	F			University Studies
201B	W			University Studies
201C	Sp			University Studies
201D		S		University Studies

#### FINANCE

FN 320	F W S	4	Corporation Finance
FN 420	F W Sp	4	Problems in Corporation Finance
FN 423	F W Sp	4	Commercial Banking Operations
FN 424	W Sp S	4	Financial Institutions
FN 425	W Sp S	4	Investments
FN 520	F	4	Finance
FN 523	W	4	Financial Management
FN 528	Sp	4	Seminar in Finance



<u>Course</u>	<u>Offered</u>	<u>Hrs.</u>	<u>Title</u>
FOREIGN LANGUAGES			
F L 399	Sp	2	Readings (French)
F L 486A	F	4	Materials and Methods for Teaching Foreign Languages
French			
FR 123A	F W S	1	French Conversation
FR 123B	W Sp S	1	French Conversation
FR 123C	Sp S	1	French Conversation
FR 130	F	10	Intensive French
FR 200		4	French Review
FR 201A	F	3	Intermediate French
FR 201B	W	3	Intermediate French
FR 201C	Sp	3	Intermediate French
FR 220	F W Sp	2	Intermediate French Conversation
FR 230A	W	10	Intermediate Intensive French
FR 230B	Sp	5	Intermediate Intensive French
FR 301A		4	French Lit. 18th Cen. to Contemporary Period
FR 301B		4	French Lit. 18th Cen. to Contemporary Period
FR 301C		4	French Lit. 18th Cen. to Contemporary Period
FR 311A		3	French Culture and Civilization
FR 311B		3	French Culture and Civilization
FR 311C		3	French Culture and Civilization
FR 338A	Sp	4	French Lit. Middle Ages to 17th Cen.
FR 338B	W	4	French Lit. Middle Ages to 17th Cen.
FR 338C	F	4	French Lit. Middle Ages to 17th Cen.
FR 351A	F	3	Advanced French Conversation and Composition
FR 351B	W	3	Advanced French Conversation and Composition
FR 451A		2	French Seminar
FR 451B		2	French Seminar
FR 451C		2	French Seminar
FR 461	Sp	4	French Stylistics
FR 499	Sp	3	Readings in French
FR 500		2	Seminar in Cont. French Lit.
FR 501			Seminar on a Selected French Author
FR 507	W	3	Study of Romanticism
FR 510	Sp	4	19th Century Realism
FR 520		4	Grad. Composition and Diction
FR 543		4	Research Problems
FR 544		4	French Language and Culture
FR 545	F	3	Linguistics and Phonetics
FR 546		3	Professional Preparation
German			
GER 126A	F W S	1	German Conversation
GER 126B	W Sp S	1	German Conversation
GER 126C	Sp S	1	German Conversation

<u>Course</u>	<u>Offered</u>	<u>Hrs.</u>	<u>Title</u>
ER 161			German-Graduate Student
ER 201A	F	3	Intermediate German
ER 201B	W	3	Intermediate German
ER 201C	Sp	3	Intermediate German
ER 220	F W Sp	2	Intermediate German Conversation
ER 251		4	Scientific German
ER 311A		3	German Culture and Civilization
ER 311B		3	German Culture and Civilization
ER 311C		3	German Culture and Civilization
ER 313A	F	4	German Lit. Before Romanticism
ER 313B	W	4	German Lit. Before Romanticism
ER 313C	Sp	4	German Lit. Before Romanticism
ER 316A		4	German Lit. Romanticism to Modern
ER 316B		4	German Lit. Romanticism to Modern
ER 316C		4	German Lit. Romanticism to Modern
ER 351A	F	3	Advanced German Composition and Conversation
ER 351B	W	3	Advanced German Composition and Conversation
ER 401	Sp	4	Faust
ER 408		4	German Civilization
ER 413	W	3	German Linguistics
ER 451A		2	Seminar
ER 451B		2	Seminar
ER 451C		2	Seminar
ER 499			Readings in German
ER 500		2	Seminar in Contemporary Lit.
ER 501		2	Seminar on a Selected German Author
ER 506		2	Romanticism I
ER 507		2	Romanticism II
ER 509A		2	Old High German
ER 509B		2	Old High German
ER 512		3	19th Cen. German Novel
ER 513		3	20th Cen. German Novel
ER 514	F	3	Seminar in Folklore
ER 533	Sp	3	Gothic
Greek			
R 499A	F	3	Ancient Greek
R 499B	W	3	Ancient Greek
R 499C	Sp	3	Ancient Greek
Italian			
TAL 144A	F	1	Italian Conversation
TAL 144B	W	1	Italian Conversation
TAL 144C	Sp	1	Italian Conversation
TAL 201A	F	3	Intermediate Italian
TAL 201B	W	3	Intermediate Italian
TAL 201C	Sp	3	Intermediate Italian
TAL 220	F W Sp	2	Intermediate Italian Conversation
TAL 499A	F	3	Readings in Italian
TAL 499B	W	3	Readings in Italian
TAL 499C	Sp	3	Readings in Italian
Latin			
AT 299A	F	3	Readings in Latin
AT 299B	W	3	Readings in Latin

<u>Course</u>	<u>Offered</u>	<u>Hrs.</u>	<u>Title</u>
LAT 299C	Sp	3	Readings in Latin
Romance Philology			
R PH 410	W	4	Romance Philology I
Russian			
RUSS 136A	F	1	Russian Conversation
RUSS 136B	W	1	Russian Conversation
RUSS 136C	Sp	1	Russian Conversation
RUSS 201A	F	3	Intermediate Russian
RUSS 201B	W	3	Intermediate Russian
RUSS 201C	Sp	3	Intermediate Russian
RUSS 220		2	Intermediate Russian Conversation
RUSS 499			Readings in Russian
Spanish			
SPAN 140A	F W S	1	Spanish Conversation
SPAN 140B	W Sp S	1	Spanish Conversation
SPAN 140C	Sp S	1	Spanish Conversation
SPAN 201A	F	3	Intermediate Spanish
SPAN 201B	W	3	Intermediate Spanish
SPAN 201C	Sp	3	Intermediate Spanish
SPAN 220	F W Sp	2	Intermediate Spanish Conversation
SPAN 301A		4	Spanish Lit. Medieval-Romanticism
SPAN 301B		4	Spanish Lit. Medieval-Romanticism
SPAN 301C		4	Spanish Lit. Medieval-Romanticism
SPAN 304A	F	4	Modern Spanish Literature
SPAN 304B	W	4	Modern Spanish Literature
SPAN 306	Sp	4	Latin American Literature
SPAN 311A		3	Spanish Culture and Civilization
SPAN 311B		3	Spanish Culture and Civilization
SPAN 311C		3	Spanish Culture and Civilization
SPAN 351A	F	3	Advanced Spanish Conversation and Composition
SPAN 351B	W	3	Advanced Spanish Conversation and Composition
SPAN 415	F	3	Phonetics
SPAN 451A		2	Spanish Seminar
SPAN 451B		2	Spanish Seminar
SPAN 451C		2	Spanish Seminar
SPAN 461	Sp	4	Spanish Stylistics
SPAN 499			Readings in Spanish
SPAN 500		2	Seminar in Latin American Fiction
SPAN 501	W	2	Seminar on a Selected Spanish Author
SPAN 505		3	Picaresque Novel
SPAN 506		3	Renaissance
SPAN 520		3	Seminar in Syntax
SPAN 525		3	Spanish Ballads
SPAN 535		3	Mexican Essayists of the 19th Cen.

#### GENERAL BUSINESS ADMINISTRATION

GBA 140	F W Sp S	4	Introduction to Business
GBA 340	F W Sp	4	Organization and Decision Making
GBA 341	F Sp	4	Organizational Problems
GBA 342	F W Sp	4	Contracts-Agency Law
GBA 440	F W S	4	Legal Environment of Business



<u>Course</u>	<u>Offered</u>	<u>Hrs.</u>	<u>Title</u>
BA 441	F W Sp S	4	Business Policy
BA 540	F	4	Concepts of Managerial Performance
BA 541		4	Business and Its Legal Environment
BA 543	F	4	The Administrator
BA 544	W	4	The Methodology of Business Research
BA 545	F S	4	The Social Framework of Business
BA 548	Sp	4	Seminar in Managerial Performance
BA 549	Sp S	4	Corporate Policy Formulation and Administration

#### GEOGRAPHY

EOG 302	F W	4	Intro. to Physical Geography
EOG 304	Sp	4	Intro. to Economic Geography
EOG 306	F	4	Intro. to Cultural Geography
EOG 308	Sp	3	Intro. to Geographic Methods
EOG 310A	F W	4	Intro. to Cartographic Methods
EOG 310B	Sp	4	Intro. to Cartographic Methods
EOG 343		4	Teaching Geography
EOG 402A	W	4	Physical Geography I
EOG 402B	Sp	3	Physical Geography I
EOG 402C		3	Physical Geography I
EOG 403A	F	4	Physical Geography II
EOG 403B	W	4	Physical Geography II
EOG 404A	Sp	4	Location Economic Activities I
EOG 404B		3	Location Economic Activities I
EOG 404C	F	3	Location Economic Activities I
EOG 405A		4	Location Economic Activities II
EOG 405B	Sp	3	Location Economic Activities II
EOG 406A	W	4	Cultural Geography I
EOG 406B		3	Cultural Geography I
EOG 407A	Sp	4	Cultural Geography II
EOG 407B		3	Cultural Geography II
EOG 410A	W	4	Quantitative Methods in Geography
EOG 410B	Sp	4	Quantitative Methods in Geography
EOG 416A		4	Cartography
EOG 416B	Sp	4	Cartography
EOG 417	W	3	Air Photo Interpretation
EOG 424		4	Regional Problems in Conservation
EOG 426A	F	4	Photogrammetry
EOG 426B	W	4	Photogrammetry
EOG 426C	Sp	4	Photogrammetry
EOG 450		S	Travel Study Course
EOG 461A	F	S	Geography: Anglo-America
EOG 461B	W	3	Geography: Anglo-America
EOG 462A	W	4	Geography: Europe
EOG 462B		S	Geography: Europe
EOG 463A		4	Geography: Mediterranean
EOG 463B	Sp	3	Geography: Mediterranean
EOG 464A		4	Geography: Soviet World
EOG 464B	Sp	3	Geography: Soviet World
EOG 465A		4	Geography of Africa
EOG 465B		3	Geography of Africa
EOG 466A		4	Geography of Asia
EOG 466B	W	3	Geography of Asia
EOG 467A	F	4	Geography of Latin America
EOG 467B	W	3	Geography of Latin America
EOG 468A		4	Advanced Geography: Oceania
EOG 468B		3	Advanced Geography: Oceania
EOG 470A	F	4	Urban Planning: History
EOG 470B	W	4	Urban Planning: Codes

<u>Course</u>	<u>Offered</u>	<u>Hrs.</u>	<u>Title</u>
GEOG 470C	Sp	4	Urban Planning: Facility
GEOG 470D	Sp S	4	Urban Planning: Problems
GEOG 470E	S	4	Urban Planning: Internship
GEOG 471A	W	4	Regional Planning
GEOG 471B	Sp	4	Regional Planning
GEOG 475			Field Geography
GEOG 490A	F	2	Tutorial in Geography
GEOG 490B	W	2	Tutorial in Geography
GEOG 490C	Sp	2	Tutorial in Geography
GEOG 490D	S	2	Tutorial in Geography
GEOG 500	Sp	4	Geographic Techniques I
GEOG 501	F	4	Geographic Techniques II
GEOG 511	W	4	Philosophy of Geography
GEOG 515	Sp S		Field Course
GEOG 520	F W Sp		Seminar in Physical Geography
GEOG 521	F Sp		Seminar in Economic Geography
GEOG 522	W		Seminar in Regional Geography
GEOG 523		4	Seminar in Cartography
GEOG 524	Sp		Seminar in Cultural Geography
GEOG 527	Sp		Seminar in Urban and Regional Planning
GEOG 530	F W Sp S		Independent Studies in Geography
GEOG 599	F W Sp S		Thesis

#### GOVERNMENT

GOVT 200	F W Sp S	4	Intro. to Political Science
GOVT 320	F Sp	4	Intro. to Public Administration
GOVT 321			Readings
GOVT 330	W	2	Illinois Government
GOVT 340A	W Sp	4	American Chief Executive
GOVT 340B	F Sp	4	American Legislative Process
GOVT 340C	S	4	American Judicial System
GOVT 345A	F	4	American Political Parties
GOVT 345B	W S	4	Political Parties and Groups
GOVT 350A	F	4	British and German Political Systems
GOVT 350B	W	4	French and Italian Political Systems
GOVT 350C	Sp	4	Soviet Political System
GOVT 355A	F	4	Latin American Political System
GOVT 355B	W	4	Asian Political Systems
GOVT 355C	Sp	4	African Political Systems
GOVT 355D	F	4	Eastern Political Systems
GOVT 370	W Sp	4	Intro. to International Relations
GOVT 385	F Sp	4	Intro. to Political Theory
GOVT 410A	F	4	Quantitative Methods in Political Science
GOVT 410B	W	4	Quantitative Methods in Political Science
GOVT 421	W	4	Public Personnel Administration
GOVT 422	Sp	4	Public Financial Administration
GOVT 423	S	4	Comparative Public Administration
GOVT 424		4	Administrative Law
GOVT 429	F S	4	Topics in Public Administration
GOVT 445A	F	4	American Vote Behavior
GOVT 445B	W	4	Personality in Politics
GOVT 445C	Sp	4	Public Opinion in the U.S.
GOVT 448	W	4	Intergovernment Relations
GOVT 449	W	4	Topics in American Politics
GOVT 456	S	4	Topics in Comparative Politics
GOVT 472A	W	4	General International Organizations

<u>Course</u>	<u>Offered</u>	<u>Hrs.</u>	<u>Title</u>
OVT 472B	Sp	4	Regional International Organizations
OVT 473A	W	4	American Foreign Policy
OVT 473B	F S	4	Soviet Foreign Policy
OVT 473C	Sp	4	Foreign Policy of Western Europe
OVT 479		4	Topics in International Relations
OVT 481A	W	4	Political Theory
OVT 481B	Sp	4	Political Analysis
OVT 484A	F	4	History of Western Political Theories
OVT 484B	W	4	History of Western Political Theories
OVT 484C	Sp	4	History of Western Political Theories
OVT 486		3	Workshop on Teaching the American Political Heritage
OVT 487A	W	3	American Political Theory
OVT 487B	Sp	3	American Political Theory
OVT 489	S	4	Topics in Political Theory
OVT 495A		4	Constitutional Law
OVT 495B		4	Constitutional Law
OVT 495C		4	Constitutional Law
OVT 496	S	4	American Judicial Behavior
OVT 499	F	4	Scope and Method of Political Science
OVT 521			Readings
OVT 529	F		Seminar in Public Administration
OVT 545	W		Seminar in American Politics
OVT 555	Sp		Seminar in Comparative Politics
OVT 575	S		Seminar in International Relations
OVT 585			Seminar in Political Theory
OVT 590			Seminar in American Public Law
OVT 599			Thesis

#### HEALTH EDUCATION

ED 205	W			4	Principles and Foundations of Health Ed.
ED 300	W			3	Communicable Disease
ED 302S	F W	Sp S		4	Driver Education
ED 313S		Sp		4	Introduction to Safety Education
ED 334S		Sp S		4	First Aid
ED 350		Sp		4	Methods and Materials in Elementary School Health Education
ED 355	F			4	Introduction to Public Health
ED 400	F			4	Health Appraisal of School Children
ED 415S			S	3	Workshop in Driver Education and Traffic Safety
ED 443S			S	4	Methods and Materials in Driver Ed.
ED 460	W			4	Methods and Materials in Secondary School Health Education
ED 461				4	Workshop in Health Education
ED 470			S	3	Workshop in Sex Education for the Elementary Teachers
ED 471		Sp		4	Organization and Administration of School Health
ED 480S				3	Workshop in Safety Education
ED 525S				4	Organization, Administration, and Supervision of Safety Education

#### HISTORY

HIST 100	F W	Sp S		3	Survey of Ancient Civilization
HIST 102	F W	Sp S		4	Survey of Asian Civilization
HIST 306A				3	Rome: The Republic



<u>Course</u>	<u>Offered</u>	<u>Hrs.</u>	<u>Title</u>
HIST 306B	S	3	Rome: The West Empire
HIST 306C		3	Rome: The East Empire
HIST 309	W S	4	The Negro in America
HIST 312	F	4	Central Europe in the 19th Cen.
HIST 316A	F	3	History of Africa
HIST 316B	W	3	History of Africa
HIST 332A	F	3	Medieval History
HIST 332B	W	3	Medieval History
HIST 332C	Sp	3	Medieval History
HIST 338A	W S	3	History of Greece
HIST 338B	Sp	3	History of Greece
HIST 341A	F	3	History of Religion
HIST 341B	W	3	History of Religion
HIST 341C	Sp	3	History of Religion
HIST 352A	F	3	History of Latin America
HIST 352B	W	3	History of Latin America
HIST 352C	Sp	3	History of Latin America
HIST 365	S	4	Chinese Civilization
HIST 367A	F	3	History of the Far East
HIST 367B	W	3	History of the Far East
HIST 372A	F	3	History of Russia
HIST 372B	W	3	History of Russia
HIST 372C	Sp	3	History of Russia
HIST 401A	F	4	History of the South
HIST 401B	W	4	History of the South
HIST 405	S	3	American Civil War
HIST 408A		3	History of Ancient Near East
HIST 408B		3	History of Ancient Near East
HIST 410	F W Sp S		Special Readings
HIST 412A	F	3	Intellectual History of the U.S.
HIST 412B	W	3	Intellectual History of the U.S.
HIST 412C	Sp	3	Intellectual History of the U.S.
HIST 415A	F	4	Early Modern Europe
HIST 415B	W	4	Early Modern Europe
HIST 415C	Sp	4	Early Modern Europe
HIST 417A		4	Advanced English History
HIST 417B		4	Advanced English History
HIST 417C		4	Advanced English History
HIST 417D		4	Advanced English History
HIST 420	F S	4	French Revolution
HIST 422A	F	4	History of the Near East
HIST 422B	W	4	History of the Near East
HIST 422C	Sp	4	History of the Near East
HIST 425A	F	3	American Colonial History
HIST 425B	W	3	American Colonial History
HIST 426	Sp	4	The Revolution and the Constitution
HIST 428	S	4	Age of Jackson
HIST 430A	F	3	Late Modern Europe
HIST 430B	W	3	Late Modern Europe
HIST 430C	Sp	3	Late Modern Europe
HIST 435A		3	Advanced American History
HIST 435B		3	Advanced American History
HIST 435C		3	Advanced American History
HIST 435D		3	Advanced American History
HIST 437A	S	3	American Military History
HIST 437B	F	3	American Military History
HIST 440A	F	3	History of American Diplomacy
HIST 440B	W	3	History of American Diplomacy
HIST 440C	Sp	3	History of American Diplomacy
HIST 445	S	3	Russian Revolution

<u>Course</u>	<u>Offered</u>	<u>Hrs.</u>	<u>Title</u>
HIST 451	S	3	Historiography
HIST 452	F W Sp S	3	Research and Thesis
HIST 454	S	3	Biography in American History
HIST 458A		4	History of Science
HIST 458B	W	4	History of Science
HIST 460A		3	History of the Middle Ages
HIST 460B		3	History of the Middle Ages
HIST 460C		3	History of the Middle Ages
HIST 470		3	Argentina, Brazil, and Chile
HIST 471A		3	History of Mexico
HIST 471B		3	History of Mexico
HIST 473A	Sp	3	The Caribbean Area
HIST 473B		3	The Caribbean Area
HIST 474		3	U.S.-Mexican Relations
HIST 500	F W Sp S		History Seminar
HIST 510	F W Sp S		Readings in History
HIST 511	Sp	3	Studies in the Middle Ages
HIST 512	Sp	3	Studies in 19th Century Europe
HIST 513	Sp	4	Problems in Ancient History
HIST 514	S	3	Studies in Asian History
HIST 515	S	3	Current U.S. History and Problems
HIST 519		4	The Age of Jefferson
HIST 530		4	City-States of the Italian Renaissance
HIST 534		4	18th Century England
HIST 540		4	American Reform Movements
HIST 545		3	Problems in Russian History
HIST 553		3	New Viewpoints in American History
HIST 554	W	4	Problems in 19th Century America
HIST 575A	F	3	Studies in Latin American History
HIST 575B		3	Studies in Latin American History
HIST 575C		3	Studies in Latin American History
HIST 599	F W Sp S		Thesis

#### HUMANITIES

HUM 301	F		Humanities Honors
HUM 302	W		Humanities Honors
HUM 303	Sp		Humanities Honors

#### INSTRUCTIONAL MATERIALS

IM 308	F		4	School Library Technical Processes
IM 400			2	Library Research Methods
IM 403	F W Sp		4	School Library Functions and Management
IM 405			4	Library Materials for Children
IM 406	F		4	Adolescent Library Materials
IM 407		Sp S	4	Basic Reference Sources
IM 410		Sp	4	Public Library Administration
IM 413	W	S	4	Cataloging Non-Book Material
IM 417	F W Sp S		4	Audio-Visual Methods in Education
IM 420		Sp	4	School Lib. Activities and Practice
IM 422	W		4	Book Selection
IM 440	F	Sp	2	Photography for Teachers
IM 445	F W Sp S		4	Preparation of Teacher-Made Audio-Visual Materials
IM 457		Sp S	4	Radio and Television in the Classroom
IM 458		Sp	4	Motion Picture

<u>Course</u>		<u>Offered</u>	<u>Hrs.</u>	<u>Title</u>
IM	470	W	4	Programmed Automated Instruction
IM	510	W S	4	Mass Communications in Education
IM	514	W S	4	Survey of Research and Development in Instructional Materials
IM	530	F	4	History of Books and Libraries
IM	546	W S	4	Integration of Audio-Visual Materials in the Classroom
IM	547	Sp	4	Film Production
IM	548	F Sp	4	Supervision and Administration of an Audio-Visual Program
IM	549	F	4	Visual Learning
IM	554	W	4	Administration of an Instructional Materials Center
IM	560	F Sp	4	Seminar

#### JOURNALISM

JRNL	101	F	S	3	Introduction to Journalism I
JRNL	102	W		3	Introduction to Journalism II
JRNL	103	F	S	3	News
JRNL	201	W		3	News Writing and Editing I
JRNL	202	Sp		3	News Writing and Editing II
JRNL	303			3	News Writing and Editing III
JRNL	330	W		3	Editorial Writing
JRNL	340	Sp		3	Law of Journalism
JRNL	345		S	3	History of Journalism
JRNL	370	F		4	Principles of Advertising
JRNL	391	Sp S		3	Feature Writing

#### MANAGEMENT OPERATING SYSTEMS

MS	280	F	Sp	4	Computer Principles and Applications
MS	281	W	S	4	Principles of Computer Programming
MS	310	F W	S	4	Operations Research for Managers
MS	380	F W	Sp	4	Management Operating Systems I
MS	381	F W	S	4	Management Operating Systems II
MS	382	F W	Sp S	4	Management Systems Simulation
MS	480	W	Sp S	4	Management Operating Systems III
MS	513		Sp	4	Deterministic Models in Decision Making
MS	518		S	4	Seminar in Probabilistic Models
MS	580		S	4	Management Systems
MS	583		Sp	4	Advanced Management Systems
MS	588	F		4	Seminar in Management Systems

#### MARKETING

MKTG	370	F W	Sp	4	Consumer Behavior
MKTG	371	F W	S	4	Principles of Marketing Management
MKTG	452	W	Sp	4	Physical Distribution Management
MKTG	470	F W	Sp	4	Marketing Research
MKTG	471	F W	Sp	4	Advertising Policy and Management
MKTG	472	W	Sp S	4	Sales Policy and Management
MKTG	473	W	Sp S	4	Advanced Marketing Management
MKTG	570		Sp	4	Marketing Concepts
MKTG	573	W		4	Marketing Policies
MKTG	578		S	4	Seminar in Marketing



<u>Course</u>	<u>Offered</u>	<u>Hrs.</u>	<u>Title</u>
MATHEMATICS			
MATH 101	F W Sp S	4	Fundamental Mathematics
MATH 150A	F W Sp S	4	El. Calculus and Analytic Geometry
MATH 150B	F W Sp S	4	El. Calculus and Analytic Geometry
MATH 225	F W Sp S	4	Programming for Digital Computers
MATH 252A	F W Sp S	4	Calculus and Analytic Geometry
MATH 252B	F W Sp S	4	Calculus and Analytic Geometry
MATH 305A	F W	4	Applied Math for Physical Sciences
MATH 305B	W Sp	4	Applied Math for Physical Sciences
MATH 310	F W Sp S	4	Teaching of Elem. Math
MATH 311	W	4	Teaching Secondary Math
MATH 321	F Sp S	4	Elem. Matrix Algebra
MATH 335A		3	Concepts of Geometry
MATH 335B		3	Concepts of Geometry
MATH 351	F W Sp S	4	Multivariable Calculus
MATH 395	F W Sp S		Readings in Math
MATH 400		S 3	History of Math
MATH 410A	F	4	Statistical Analysis
MATH 410B	W	4	Statistical Analysis
MATH 410C	Sp	4	Statistical Analysis
MATH 410D		S 4	Statistical Analysis
MATH 413		4	Solid Analytic Geometry
MATH 415		4	Non-Euclidean Geometry
MATH 420A	F W	3	Fundamental Concepts of Algebra
MATH 420B	W Sp	3	Fundamental Concepts of Algebra
MATH 421A	W	3	Linear Algebra
MATH 421B	Sp	3	Linear Algebra
MATH 425	Sp S	3	Theory of Numbers
MATH 426A		3	Mathematical Logic
MATH 426B		3	Mathematical Logic
MATH 430	Sp	4	Projective Geometry
MATH 433	F	S 3	Theory of Point Sets
MATH 440		S	Modern Algebra for Teachers
MATH 442		S	Survey of Geometry
MATH 445	Sp S		Fundamental Concepts of Calculus
MATH 446A			Structure of Math
MATH 446B	F W Sp		Structure of Math
MATH 447		S 4	Structure of Secondary School Math
MATH 452A	F	3	Advanced Calculus
MATH 452B	W	3	Advanced Calculus
MATH 452C	Sp	3	Advanced Calculus
MATH 455A	F	3	Advanced Math for the Physical Sciences
MATH 455B	W	3	Advanced Math for the Physical Sciences
MATH 455C	Sp	3	Advanced Math for the Physical Sciences
MATH 458A	F	3	Finite Math
MATH 458B	W	3	Finite Math
MATH 460	W	4	Modern Geometry
MATH 472A	F	3	Computer Science
MATH 472B	W	3	Computer Science
MATH 472C	Sp	3	Computer Science
MATH 475A	F	3	Numerical Analysis
MATH 475B	W	3	Numerical Analysis
MATH 475C	Sp	3	Numerical Analysis
MATH 480A		4	Probability

<u>Course</u>	<u>Offered</u>	<u>Hrs.</u>	<u>Title</u>
MATH 480B		3	Probability
MATH 480C		3	Probability
MATH 483A	F W	3	Introduction to Math Statistics
MATH 483B	W Sp	3	Introduction to Math Statistics
MATH 483C	Sp S	3	Introduction to Math Statistics
MATH 501A	F	3	Real Variables
MATH 501B	W	3	Real Variables
MATH 501C	Sp	3	Real Variables
MATH 505A		3	Theory of Differential Equations
MATH 505B		3	Theory of Differential Equations
MATH 505C		3	Theory of Differential Equations
MATH 510		4	Foundations of Math
MATH 520A	F	3	Modern Algebra
MATH 520B	W	3	Modern Algebra
MATH 520C	Sp	3	Modern Algebra
MATH 530			Point Set Topology
MATH 536		3	Differential Geometry
MATH 540		4	Groups and Linear Transformations
MATH 545		4	Intermediate Analysis for High School Teachers
MATH 550A	F W Sp		Seminar in Algebra
MATH 550B			Seminar in Geometry
MATH 550C	F W Sp		Seminar in Analysis
MATH 550D	Sp		Seminar in Probability and Statistics
MATH 550E			Seminar in Math Education
MATH 551A		3	Functional Analysis
MATH 551B		3	Functional Analysis
MATH 551C		3	Functional Analysis
MATH 555A	F	3	Complex Variables
MATH 555B	W	3	Complex Variables
MATH 555C	Sp	3	Complex Variables
MATH 575A	F	3	Advanced Topics in Numerical Analysis
MATH 575B	W	3	Advanced Topics in Numerical Analysis
MATH 575C	Sp	3	Advanced Topics in Numerical Analysis
MATH 580A	F	3	Mathematical Methods of Statistics
MATH 580B	W	3	Mathematical Methods of Statistics
MATH 580C	Sp	3	Mathematical Methods of Statistics
MATH 595	F W Sp S		Special Project
MATH 599	F W Sp S		Thesis

#### MUSIC

MUS 001A	F W Sp	1	Symphonic Band
MUS 001B	F W Sp S	1	University Band
MUS 001C	F W Sp	1	Stage Band
MUS 001D	Sp		Instrumental Lab
MUS 002A		1	Collegiate Singers
MUS 002B		1	University Chorus
MUS 002C	F W Sp	1	Male Chorus
MUS 002D	F W Sp	1	Women's Glee Club
MUS 002E	F W Sp S	1	Community Choral Society
MUS 002G	F W Sp	1	Concert Chorale
MUS 003	F W Sp	1	University Symphony Orchestra
MUS 010A	F W	1	Class Strings
MUS 010B	Sp S	1	Class Woodwinds
MUS 010C	F W Sp S	1	Class Brass
MUS 010D	F Sp	1	Class Percussion
MUS 010E	F W Sp S	1	Class Piano
MUS 010F	F W Sp	1	Class Voice
MUS 105A	F W	4	Theory of Music

<u>Course</u>		<u>Offered</u>	<u>Hrs.</u>	<u>Title</u>
MUS	105B	W Sp	4	Theory of Music
MUS	105C	Sp S	4	Theory of Music
MUS	106A	F	5	Technics and Lit. of Music Practice
MUS	106B	W	5	Technics and Lit. of Music Practice
MUS	106C	Sp	5	Technics and Lit. of Music Practice
MUS	140A	F W Sp S		Private Violin
MUS	140B	F W Sp S		Private Viola
MUS	140C	F W Sp S		Private Cello
MUS	140D	F W Sp S		Private String Bass
MUS	140E	F W Sp S		Private Flute
MUS	140F	F W Sp S		Private Oboe
MUS	140G	F W Sp S		Private Clarinet
MUS	140H	F W Sp S		Private Bassoon
MUS	140I	F W Sp S		Private Saxophone
MUS	140J	F W Sp S		Private Percussion
MUS	140K	F W Sp S		Private Piano
MUS	140L	F W Sp S		Private French Horn
MUS	140M	F W Sp S		Private Trumpet
MUS	140N	F W Sp S		Private Trombone
MUS	140O	F W Sp S		Private Tuba
MUS	140P	F W Sp S		Private Baritone
MUS	140Q	F W Sp S		Private Voice
MUS	140R	F W Sp S		Private Organ
MUS	140S	F W Sp S		Private Harpsichord
MUS	140T	F W Sp S		Private Harp
MUS	140U	F W Sp S		Private Guitar
MUS	200	F W Sp S	3	Fundamentals of Music
MUS	205A	F	3	Theory of Music
MUS	205B	W	3	Theory of Music
MUS	205C	Sp	3	Theory of Music
MUS	206A	F	5	Technics and Lit. of Music Practice
MUS	206B	W	5	Technics and Lit. of Music Practice
MUS	206C	Sp	5	Technics and Lit. of Music Practice
MUS	240A	F W Sp S		Private Violin
MUS	240B	F W Sp S		Private Viola
MUS	240C	F W Sp S		Private Cello
MUS	240D	F W Sp S		Private String Bass
MUS	240E	F W Sp S		Private Flute
MUS	240F	F W Sp S		Private Oboe
MUS	240G	F W Sp S		Private Clarinet
MUS	240H	F W Sp S		Private Bassoon
MUS	240I	F W Sp S		Private Saxophone
MUS	240J	F W Sp S		Private Percussion
MUS	240K	F W Sp S		Private Piano
MUS	240L	F W Sp S		Private French Horn
MUS	240M	F W Sp S		Private Trumpet
MUS	240N	F W Sp S		Private Trombone
MUS	240O	F W Sp S		Private Tuba
MUS	240P	F W Sp S		Private Baritone
MUS	240Q	F W Sp S		Private Voice
MUS	240R	F W Sp S		Private Organ
MUS	240S	F W Sp S		Private Harpsichord
MUS	240T	F W Sp S		Private Harp
MUS	240U	F W Sp S		Private Guitar
MUS	300	F W Sp S	3	Music Education-Elementary
MUS	301A	F	3	Music Education
MUS	301B	W	3	Music Education
MUS	301C	Sp	3	Music Education
MUS	307	F S	4	Recreational Music
MUS	309A	F	3	Orchestration
MUS	309B	W	3	Orchestration



<u>Course</u>		<u>Offered</u>	<u>Hrs.</u>	<u>Title</u>
MUS	312A	F	3	Composition
MUS	312B	W	3	Composition
MUS	318A	W	3	Conducting
MUS	318B	Sp	3	Conducting
MUS	326A	F	3	Analysis
MUS	326B	W	3	Analysis
MUS	340A	F W Sp S		Private Violin
MUS	340B	F W Sp S		Private Viola
MUS	340C	F W Sp S		Private Cello
MUS	340D	F W Sp S		Private String Bass
MUS	340E	F W Sp S		Private Flute
MUS	340F	F W Sp S		Private Oboe
MUS	340G	F W Sp S		Private Clarinet
MUS	340H	F W Sp S		Private Bassoon
MUS	340I	F W Sp S		Private Saxophone
MUS	340J	F W Sp S		Private Percussion
MUS	340K	F W Sp S		Private Piano
MUS	340L	F W Sp S		Private French Horn
MUS	340M	F W Sp S		Private Trumpet
MUS	340N	F W Sp S		Private Trombone
MUS	340O	F W Sp S		Private Tuba
MUS	340P	F W Sp S		Private Baritone
MUS	340Q	F W Sp S		Private Voice
MUS	340R	F W Sp S		Private Organ
MUS	340S	F W Sp S		Private Harpsichord
MUS	340T	F W Sp S		Private Harp
MUS	340U	F W Sp S		Private Guitar
MUS	355A	F W Sp S	1	Chamber Ensemble
MUS	355B	F W Sp S	1	Chamber Ensemble
MUS	355C	F W Sp S	1	Chamber Ensemble
MUS	355D	F W Sp S	1	Chamber Ensemble
MUS	356	F W Sp	1	Piano Ensemble
MUS	357A	F	3	Music Literature and History
MUS	357B	W	3	Music Literature and History
MUS	357C	Sp	3	Music Literature and History
MUS	401	W	3	Psycho-Physiology of Music
MUS	411A	W S	3	Music Literature-Symphonic
MUS	411B	S	3	Music Literature-Choral
MUS	411C		3	Music Literature-Chamber Music
MUS	413A	F	3	Chamber Music Literature
MUS	420	W S	1	Music Education Practicum
MUS	440A	F W Sp S		Private Violin
MUS	440B	F W Sp S		Private Viola
MUS	440C	F W Sp S		Private Cello
MUS	440D	F W Sp S		Private String Bass
MUS	440E	F W Sp S		Private Flute
MUS	440F	F W Sp S		Private Oboe
MUS	440G	F W Sp S		Private Clarinet
MUS	440H	F W Sp S		Private Bassoon
MUS	440I	F W Sp S		Private Saxophone
MUS	440J	F W Sp S		Private Percussion
MUS	440K	F W Sp S		Private Piano
MUS	440L	F W Sp S		Private French Horn
MUS	440M	F W Sp S		Private Trumpet
MUS	440N	F W Sp S		Private Trombone
MUS	440O	F W Sp S		Private Tuba
MUS	440P	F W Sp S		Private Baritone
MUS	440Q	F W Sp S		Private Voice
MUS	440R	F W Sp S		Private Organ
MUS	440S	F W Sp S		Private Harpsichord
MUS	440T	F W Sp S		Private Harp
MUS	440U	F W Sp S		Private Guitar

<u>Course</u>	<u>Offered</u>	<u>Hrs.</u>	<u>Title</u>
MUS 442A		3	Contrapuntal Forms
MUS 442B	F	3	Contrapuntal Forms
MUS 451		3	Teaching General Classroom Music
MUS 453	S		Workshop in Common Learnings in Music
MUS 455			Elem. Music Education Workshop
MUS 461A	F	3	Piano Pedagogy
MUS 461B	W	3	Piano Pedagogy
MUS 465	Sp	3	Development and Teaching of Strings
MUS 481	F W Sp S		Readings in Music Theory
MUS 482	F W Sp S		Readings in History and Literature
MUS 483	F W Sp S		Readings in Music Education
MUS 499	F W Sp S		Independent Study
MUS 501	F S	3	Introduction to Graduate Study
MUS 502A	W Sp	3	History and Analysis of Style
MUS 502B		3	History and Analysis of Style
MUS 502C		3	History and Analysis of Style
MUS 514	F W Sp	2	Collegium Musicum
MUS 515		3	20th Century Literature
MUS 518		3	Pedagogy of Music Literature
MUS 519A	F	3	Vocal Pedagogy and Literature
MUS 519B	W	3	Vocal Pedagogy and Literature
MUS 519C	Sp	3	Vocal Pedagogy and Literature
MUS 520	W	3	American Music
MUS 522	Sp	3	Seminar: Music History and Lit.
MUS 535		3	Contemporary Idioms
MUS 540A	F W Sp S		Private Violin
MUS 540B	F W Sp S		Private Viola
MUS 540C	F W Sp S		Private Cello
MUS 540D	F W Sp S		Private String Bass
MUS 540E	F W Sp S		Private Flute
MUS 540F	F W Sp S		Private Oboe
MUS 540G	F W Sp S		Private Clarinet
MUS 540H	F W Sp S		Private Bassoon
MUS 540I	F W Sp S		Private Saxophone
MUS 540J	F W Sp S		Private Percussion
MUS 540K	F W Sp S		Private Piano
MUS 540L	F W Sp S		Private French Horn
MUS 540M	F W Sp S		Private Trumpet
MUS 540N	F W Sp S		Private Trombone
MUS 540O	F W Sp S		Private Tuba
MUS 540P	F W Sp S		Private Baritone
MUS 540Q	F W Sp S		Private Voice
MUS 540R	F W Sp S		Private Organ
MUS 540S	F W Sp S		Private Harpsichord
MUS 540T	F W Sp S		Private Harp
MUS 540U	F W Sp S		Private Guitar
MUS 550A	W	4	Music Education Program
MUS 550B	Sp	4	Music Education Program
MUS 553A	S	3	Seminar in Materials and Techniques
MUS 553B	F	3	Seminar in Materials and Techniques
MUS 556	S	3	Advanced Conducting
MUS 560	F		Seminar in Music Education
MUS 566	F W Sp S	1	Instrumental Ensemble
MUS 567	F W Sp S	1	Vocal Ensemble
MUS 599	F W Sp S		Thesis

#### NURSING

NURS 210		4	Nutrition
NURS 280A	F	4	Nursing and Community Health
NURS 280B	W	4	Nursing and Community Health

<u>Course</u>	<u>Offered</u>	<u>Hrs.</u>	<u>Title</u>
NURS 280C	Sp	4	Nursing and Community Health
NURS 301	F	8	Nursing I
NURS 302A	W	4	Nursing II
NURS 302B	Sp	4	Nursing II
NURS 325A	F	4	Nursing IV
NURS 325B	W	4	Nursing IV
NURS 355	W	3	Backgrounds and Trends in Nursing
NURS 363A		8	Nursing III
NURS 363B	F W	4	Nursing III
NURS 363C	W Sp	4	Nursing III
NURS 375A	F	4	Nursing V
NURS 375B	W	4	Nursing V
NURS 382	Sp	10	Nursing VI
NURS 385	F W Sp S	1-4	Independent Study

#### PERSONNEL AND INDUSTRIAL RELATIONS

PERS 450	F W Sp	4	Personnel Administration
PERS 451	F W Sp	4	Labor Relations Law and Collective Bargaining
PERS 452	W Sp S	4	Advanced Problems in Personnel Administration
PERS 453	W Sp S	4	Advanced Problems in Industrial Relations

#### PHILOSOPHY

PHIL 200	F W Sp S	4	Introduction to Philosophy
PHIL 300	Sp	4	Introduction to Metaphysics
PHIL 301	F Sp	4	Philosophy of Religion
PHIL 302	F Sp	4	World Religions
PHIL 342		4	Social and Political Theory
PHIL 345	Sp	4	The Aesthetics of Film
PHIL 355	W	4	Philosophy of Education
PHIL 360	Sp	4	Philosophy of Art
PHIL 376	W	4	Advanced Ethics
PHIL 385A	F	4	History of Western Philosophy
PHIL 385B	F	4	History of Western Philosophy
PHIL 385C	W	4	History of Western Philosophy
PHIL 385D		4	History of Western Philosophy
PHIL 385E	S	4	History of Western Philosophy
PHIL 386	F	4	American Philosophy
PHIL 391	F	4	Intro. to Theory of Knowledge
PHIL 402		4	Hindu Thought
PHIL 403	W	4	Buddhist Thought
PHIL 430	W	4	Symbolic Logic
PHIL 443	W	4	Philosophy of History
PHIL 484A	F	4	History of Western Political Theory
PHIL 484B	W	4	History of Western Political Theory
PHIL 484C	Sp	4	History of Western Political Theory
PHIL 490	W		Special Problems
PHIL 495	F W Sp S		Independent Readings
PHIL 502A	F	2	Methods of Teaching Philosophy
PHIL 502B	S	2	Methods of Teaching Philosophy
PHIL 531	W	4	Plato
PHIL 535	Sp	4	Aristotle
PHIL 545	S	4	Rationalism
PHIL 546	F	4	Empiricism
PHIL 560	Sp	4	Logic



<u>Course</u>	<u>Offered</u>	<u>Hrs.</u>	<u>Title</u>
PHIL 565	F	4	Ethical Theory
PHIL 572	W	4	Seminar in History of Philosophy
PHIL 575	S	4	Seminar in Problems of Philosophy
PHYSICAL EDUCATION			
PE 025	F W Sp S		Orientation
PE 303	F Sp	5	Kinesiology
PE 305	W Sp	3	Physical Education for the Atypical Student
PE 312		S	Playground Leadership
PE 323A	F W Sp S	1	Officiating Techniques
PE 323B	F W Sp S	1	Officiating Techniques
PE 323C	F W Sp S	1	Officiating Techniques
PE 341	F Sp	3	Principles of Physical Education
PE 348	F Sp S	3	Camp and Community Leadership
PE 349	F Sp S	2	Camping Education
PE 350	F W Sp S	4	Teaching Physical Education in the Elementary School
PE 352	F W	2	History and Physical Education
PE 354	W	3	Organization and Administration of Physical Education and Athletics
PE 355		2	Techniques of Teaching Swimming
PE 365	F Sp S		Organization and Administration of Community Recreation
PE 370	F W Sp S	4	Tests and Measurements in P.E.
PE 376	W	3	Care and Prevention of Athletic Injuries
PE 382	F W Sp S	4	Methods and Materials in Secondary Schools
PE 383		Sp 2	Outdoor Group Games
PE 384	W	2	Rhythmical Activities
PE 385	W	2	Indoor Group Games
PE 387		Sp 2	Developmental Skills
PE 388	W	2	Self Testing Activities
PE 389	F W Sp S	4	Affiliation in Physical Education
PE 390		Sp 3	Evaluation Techniques in the Elem. School
PE 402	W	4	Organization and Administration of Intramural and Extramural Activities
PE 404		S 2	Workshop in Dance for Teachers
PE 420		Sp 4	Physiological Effects of Motor Activity
PE 427		S 4	P.E. for the Handicapped
PE 475	F W Sp S		Individual Research
PE 476	W S		Teaching Athletic Skills
PE 500		4	Techniques in Research
PE 501	F Sp S	4	Curriculum in Physical Education
PE 502	F W Sp	4	Foundations of Motor Skills
PE 503	W S	4	Seminar in Physical Education
PE 504	F W S	4	Problems in Physical Education
PE 509		Sp S 4	Supervision of Health and P.E.
PE 525	F W Sp S		Readings in Physical Education
PHYSICS			
PHYS 206A	F	5	College Physics
PHYS 206B	W	5	College Physics

<u>Course</u>	<u>Offered</u>	<u>Hrs.</u>	<u>Title</u>
PHYS 206C	Sp	5	College Physics
PHYS 211A	F W	4	University Physics
PHYS 211B	W S	4	University Physics
PHYS 211C	Sp	4	University Physics
PHYS 212A	F W	1	University Physics Lab.
PHYS 212B	W S	1	University Physics Lab.
PHYS 212C	Sp	1	University Physics Lab.
PHYS 300A	F S	4	Introduction to Modern Physics
PHYS 300B	F S	1	University Physics Lab. IV
PHYS 301A	F	4	Mechanics
PHYS 301B	W	4	Mechanics
PHYS 304	F	4	Thermodynamics and Kinetic Theory
PHYS 305A	W	4	Intro. to Electromagnetic Field Theory
PHYS 305B	Sp	4	Intro. to Electromagnetic Field Theory
PHYS 310	W	4	Physical Optics
PHYS 311	W	1	Optics Lab.
PHYS 316		5	History of Physics
PHYS 320	Sp	4	Special Relativity
PHYS 375	Sp		Seminar
PHYS 404	W	3	Intro. to Statistical Mechanics
PHYS 415A	W	4	Wave Mechanics
PHYS 415B	Sp	4	Atomic Physics
PHYS 415C	S	4	Nuclear Physics
PHYS 418	W Sp S		Modern Physics Lab.
PHYS 420	F Sp S		Special Projects
PHYS 435	F	3	Plasma Physics
PHYS 445A	S	4	X-Ray Crystallography
PHYS 445B		4	X-Ray Crystallography
PHYS 450	Sp	4	Intro. to Solid-State Physics
PHYS 510A	F	3	Classical Mechanics
PHYS 510B	W	3	Classical Mechanics
PHYS 510C	Sp	3	Classical Mechanics
PHYS 530A	W	3	Electromagnetic Theory
PHYS 530B	Sp	3	Electromagnetic Theory
PHYS 530C	S	3	Electromagnetic Theory
PHYS 531A	F	3	Quantum Mechanics
PHYS 531B	W	3	Quantum Mechanics
PHYS 531C	Sp	3	Quantum Mechanics
PHYS 540		3	Nuclear Physics
PHYS 560		3	Statistical Mechanics
PHYS 570	S	3	Solid State Physics
PHYS 575	Sp		Graduate Seminar
PHYS 580	Sp		Selected Topics in Physics
PHYS 590	F W Sp S		Research Physics

#### PRODUCTION

PROD 460	F W Sp	4	Production Management
PROD 461	F W Sp S	4	Methods Design and Work Measurement
PROD 462	W Sp	4	Production Planning and Control
PROD 463	W Sp S	4	Advanced Production Management

#### PSYCHOLOGY

PSYC 211A	F W Sp S	4	Principles and Methods of Psych.
PSYC 211B	F W Sp S	4	Principles and Methods of Psych.

<u>Course</u>	<u>Offered</u>	<u>Hrs.</u>	<u>Title</u>
PSYC 301	F W Sp S	4	Child Psychology
PSYC 303	F W Sp S	4	Adolescent Psychology
PSYC 304	F	4	Maturity and Old Age
PSYC 305	F W Sp S	4	Intro. to Personality Dynamics
PSYC 307	F W Sp S	4	Social Psychology
PSYC 311	F W Sp S	4	Experimental Psychology: Learning
PSYC 312	F W Sp S	4	Experimental Psychology: Perception
PSYC 313	F Sp	4	Experimental Psychology: Motivation
PSYC 314	W	4	Experimental Psychology: Comparative and Physiological
PSYC 320	F Sp	4	Industrial Psychology
PSYC 404	Sp	4	Theories of Perception
PSYC 406	S	4	Learning Processes
PSYC 407	W	4	Theories of Learning I
PSYC 408	S	4	Theories of Motivation
PSYC 409	F W Sp S	4	History and Systems
PSYC 420	F W Sp S	4	Experimental Analysis of Behavior
PSYC 421	F W S	4	Psychological Tests and Measurements
PSYC 431	F W Sp S	4	Psychopathology
PSYC 432	F W Sp S	4	Mental Hygiene
PSYC 440	F W Sp S	4	Theories of Personality
PSYC 451	W	4	Advanced Child Psychology
PSYC 461	W	4	Advanced Social Psychology
PSYC 465	F W Sp S	4	Group Dynamics and Individual Behavior
PSYC 471	W S	4	Work Methods and Measurement
PSYC 473	W	4	Personnel Psychology
PSYC 474	F	4	Psychology of Employee Relations
PSYC 479	S	4	Psychology of Industrial Conflict
PSYC 490	F W Sp S		Independent Projects
PSYC 495	As needed		Seminar: Selected Topics
PSYC 501A	F	4	Proseminar in General Psychology
PSYC 501B	W	4	Proseminar in General Psychology
PSYC 501C	Sp	4	Proseminar in General Psychology
PSYC 512	W	4	Sensory Processes
PSYC 514A	Sp	4	Physiological Psychology
PSYC 514B	S	4	Physiological Psychology
PSYC 520	F	4	Research Design and Inference I
PSYC 521	W	4	Research Design and Inference II
PSYC 522	Sp	4	Research Design and Inference III
PSYC 530	F	4	Personality Theory and Dynamics
PSYC 531	W		Advanced Psychopathology
PSYC 537	Sp	4	Counseling and Psychotherapy
PSYC 541A	F Sp	4	Psychodiagnostics I
PSYC 541B	W S		Psychodiagnostics I
PSYC 543A	Sp	4	Psychodiagnostics II
PSYC 543B		2	Psychodiagnostics II
PSYC 552	Sp	4	Experimental Child Psychology
PSYC 556		2	Psychological Treatment of the Child
PSYC 561	Sp	4	Social Influence Processes
PSYC 564	Sp	4	Communication and Group Behavior
PSYC 571	Sp	4	Industrial Motivation and Morale
PSYC 590	F W Sp S		Readings in Psychology
PSYC 591	F W Sp S		Research in Psychology
PSYC 593	F W Sp S		Practicum in Psychology
PSYC 593S	F W Sp S		Practicum in Psychology School Psychology
PSYC 598	Sp	2	Ethical and Professional Problems in Psychology
PSYC 599	F W Sp S		Thesis



<u>Course</u>		<u>Offered</u>		<u>Hrs.</u>	<u>Title</u>
QUANTITATIVE METHODS					
QM	210	F	Sp	4	Probability in Decision Making
QM	211		W Sp S	4	Statistical Analysis for Business Decisions
QM	510	F		4	Statistical Analysis for Decision Making
QM	511		W	4	Quantitative Methods for Decision Making

#### REHABILITATION

REHB	480	F		2	Introduction to Rehabilitation
REHB	511	F			Vocational Choice
REHB	519		Sp	2	Selection, Placement, and Follow-up
REHB	531		W	2	Vocational Appraisal
REHB	541			S	Medical Aspects of Rehabilitation
REHB	561		W	2	Psycho-Social Aspects of Disability
REHB	580		W Sp S		Practicum in Rehabilitation Services
REHB	585		Sp S		Practicum in Rehabilitation Counseling
REHB	589		Sp S		Internship in Rehabilitation

#### SCIENCE AND TECHNOLOGY

SC&T	390	F	W	Sp	S	Science and Technology Honors
SC&T	400		W		3	Classical Physics
SC&T	401A				S	Classical Mechanics
SC&T	401B				5	Classical Mechanics
SC&T	402			Sp	4	Modern Physics
SC&T	403A		W		3	Techniques of Physics
SC&T	403B			Sp	3	Techniques of Physics
SC&T	406A				S	Math Physics for the Teacher
SC&T	406B				5	Math Physics for the Teacher
SC&T	415	F	W	Sp	S	Instructional Techniques
SC&T	510				3	Physical Geometric Optics
SC&T	511				2	Optics Laboratory

#### SECONDARY EDUCATION

ED S	315	F	W	Sp	S	4	High School Methods
ED S	352D	F	W	Sp	S	8-16	Secondary Student Teaching Art
ED S	352D	F	W	Sp	S		Secondary Student Teaching Biology
ED S	352D	F	W	Sp	S		Secondary Student Teaching Business
ED S	352D	F	W	Sp	S		Secondary Student Teaching Chemistry
ED S	352D	F	W	Sp	S		Secondary Student Teaching Economics
ED S	352D	F	W	Sp	S		Secondary Student Teaching English
ED S	352D	F	W	Sp	S		Secondary Student Teaching For. Lan.
ED S	352D	F	W	Sp	S		Secondary Student Teaching Gen. Sci.
ED S	352D	F	W	Sp	S		Secondary Student Teaching Geography
ED S	352D	F	W	Sp	S		Secondary Student Teaching Govt.
ED S	352D	F	W	Sp	S		Secondary Student Teaching Health Ed.
ED S	352D	F	W	Sp	S		Secondary Student Teaching History
ED S	352D	F	W	Sp	S		Secondary Student Teaching H Ec.
ED S	352D	F	W	Sp	S		Secondary Student Teaching In. Ed.
ED S	352D	F	W	Sp	S		Secondary Student Teaching Journalism
ED S	352D	F	W	Sp	S		Secondary Student Teaching Math
ED S	352D	F	W	Sp	S		Secondary Student Teaching Music

Course			Offered	Hrs.	Title
ED S	352D	F W Sp S			Secondary Student Teaching Nursing
ED S	352D	F W Sp S			Secondary Student Teaching P.E.
ED S	352D	F W Sp S			Secondary Student Teaching Physics
ED S	352D	F W Sp S			Secondary Student Teaching Sociology
ED S	352D	F W Sp S			Secondary Student Teaching Social Studies
ED S	352D	F W Sp S			Secondary Student Teaching Speech
ED S	352D	F W Sp S			Secondary Student Teaching Library Science
ED S	352D	F W Sp S			Secondary Student Teaching Psychology
ED S	352E	F W Sp S	4-8		Advanced Student Teaching Art
ED S	352E	F W Sp S			Advanced Student Teaching Biology
ED S	352E	F W Sp S			Advanced Student Teaching Business
ED S	352E	F W Sp S			Advanced Student Teaching Chemistry
ED S	352E	F W Sp S			Advanced Student Teaching Economics
ED S	352E	F W Sp S			Advanced Student Teaching English
ED S	352E	F W Sp S			Advanced Student Teaching For. Lan.
ED S	352E	F W Sp S			Advanced Student Teaching Gen. Sci.
ED S	352E	F W Sp S			Advanced Student Teaching Geography
ED S	352E	F W Sp S			Advanced Student Teaching Government
ED S	352E	F W Sp S			Advanced Student Teaching Health Ed.
ED S	352E	F W Sp S			Advanced Student Teaching History
ED S	352E	F W Sp S			Advanced Student Teaching H Ec.
ED S	352E	F W Sp S			Advanced Student Teaching In. Ed.
ED S	352E	F W Sp S			Advanced Student Teaching Journalism
ED S	352E	F W Sp S			Advanced Student Teaching Math
ED S	352E	F W Sp S			Advanced Student Teaching Music
ED S	352E	F W Sp S			Advanced Student Teaching P.E.
ED S	352E	F W Sp S			Advanced Student Teaching Physics
ED S	352E	F W Sp S			Advanced Student Teaching Sociology
ED S	352E	F W Sp S			Advanced Student Teaching Social Studies
ED S	352E	F W Sp S			Advanced Student Teaching Speech
ED S	352E	F W Sp S			Advanced Student Teaching Library Science
ED S	352E	F W Sp S			Advanced Student Teaching Psychology
ED S	407	W S	4		The Jr. High School
ED S	440	W S			Teaching Reading in High School
ED S	480	F W Sp S	4		Backgrounds of Urban Education
ED S	487	F S	4		Natural Sciences in Secondary Schools
ED S	488	F Sp	4		Social Studies in Secondary Schools
ED S	505	F W Sp S	4		Improvement of Reading Instruction
ED S	507	F W Sp S			Readings in Reading
ED S	508	F W Sp S	4		Seminar: Trends in Selected Areas
ED S	509	F W Sp S			Practicum in Reading
ED S	514	W S	4		Reading
ED S	518	F S			Supervision of Student Teachers
ED S	521A	F Sp S	4		Diagnosis and Correction of Reading Disabilities
ED S	521B	F W S	4		Diagnosis and Correction of Reading Disabilities
ED S	521C	W Sp	4		Diagnosis and Correction of Reading Disabilities
ED S	550		4		Core Curriculum in the Secondary School
ED S	553	F W Sp			Practicum in Urban Education
ED S	562	F W Sp S	4		High School Curriculum
ED S	564		4		High School Principalship
ED S	567A	F	4		Teaching Competencies Application
ED S	567B	W	4		Teaching Competencies Application

<u>Course</u>	<u>Offered</u>	<u>Hrs.</u>	<u>Title</u>
ED S 567C	Sp	4	Teaching Competencies Application
ED S 570		4	Extra-Class Activities
ED S 575A	F W Sp S		Individual Research in Curriculum
ED S 575B	F W Sp S		Individual Research in Supervision
ED S 575C	F W Sp S		Individual Research in Lang. Arts
ED S 575D	F W Sp S		Individual Research in Science
ED S 575E	F W Sp S		Individual Research in Reading
ED S 575F	F W Sp S		Individual Research in Soc. Studies
ED S 575G	F W Sp S		Individual Research in Secondary Ed.
ED S 575H	F W Sp S		Individual Research in Higher Educ.
ED S 575J	F W Sp S		Individual Research in Jr. College
ED S 591	Sp S	4	Current Problems in Secondary Educ.
ED S 596	F W Sp S		Independent Investigation
ED S 597	F W Sp S		Thesis

#### SOCIAL WELFARE

SOCW 375	W	S	4	Social Welfare as a Social Institution
SOCW 383	F	Sp	4	Introduction to Interviewing
SOCW 389				Readings in Social Welfare
SOCW 481	F	S	4	Processes in Social Work
SOCW 482		Sp	4	Social Work in Selected Agencies

#### SOCIOLOGY

SOC 241			4	Marriage and Parenthood
SOC 301	F W Sp S		4	Principles of Sociology
SOC 302	F W Sp S		4	Contemporary Social Problems
SOC 306			4	Social Control
SOC 308			3	Statistics for Social Science
SOC 312	W Sp		4	Sociological Research
SOC 320	W Sp S		4	Race and Minority Group Relations
SOC 321	F W Sp S		4	Socialization of the Individual
SOC 322			4	Propaganda and Public Opinion
SOC 332		Sp	4	Social Organization
SOC 333			4	Community Organization
SOC 335	F		4	Urban Sociology
SOC 338			4	Industrial Sociology
SOC 340	W	S	4	The Family
SOC 351	W		4	Sociology of Religion
SOC 371	W		4	Population and Migration
SOC 372	F		4	Criminology
SOC 373			4	Juvenile Delinquency
SOC 374		Sp	4	Sociology of Education
SOC 388			3	Inter-Group Relations
SOC 396	F W Sp S		4	Readings in Sociology
SOC 405	F W Sp		4	Current Sociology
SOC 406			4	Social Change
SOC 412			4	Sociological Research
SOC 424			4	Collective Behavior
SOC 426	F		4	Sociological Behavior and Personality
SOC 427	F		4	Personality and Social Adjustment
SOC 435		Sp	4	Social Stratification
SOC 438			4	Sociology of Occupations
SOC 450			4	Sociology of Knowledge
SOC 451	F W Sp		4	Social Thought II: Movement
SOC 453			4	Social Movements
SOC 470C			4	Urban Planning



<u>Course</u>		<u>Offered</u>	<u>Hrs.</u>	<u>Title</u>
OC 472		W	4	Treatment and Prevention of Crime
OC 483			3	Current Problems in Corrections
OC 484		Sp S	4	Marriage Counseling
OC 485			6	Juvenile Delinquency Prevention
OC 489A			3	American Correction System
OC 489B			4	Probation, Classification, and Parole
OC 501			4	Survey of Sociological Theory
OC 504			4	Seminar in American Sociology
OC 506		W	4	Seminar in Contemporary Sociological Theory
OC 519		Sp	4	Methodological Foundations of Social Science
OC 521			4	Seminar in Social Psychology
OC 534			4	Seminar in Intergroup Relations
OC 538			4	Seminar in Industrial Sociology
OC 542		F	4	Seminar on the Family
OC 596		F W Sp S		Readings in Sociology
OC 599		F W Sp S		Thesis

#### **SPECIAL EDUCATION**

P E 351D	F	Sp	8	Elementary Student Teaching
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#### **SPEECH**

PCH 104	F	Sp	4	Training of the Speaking Voice
PCH 202	W		3	Principles of Discussion
PCH 205	F		3	Principles of Argumentation and Debate
PCH 224	F	Sp	4	Communicative Reading
PCH 301	F		4	Persuasion
PCH 303		Sp	4	Business and Professional Speaking
PCH 406	W		4	Teaching Speech in Secondary School
PCH 407A		Sp	4	History of American Public Address
PCH 407B	W		4	History of American Public Address
PCH 408	W		4	Psychology of Speech
PCH 441		S	4	Teaching Speech in the Elem. School
PCH 449		Sp	4	General Semantics

#### **SPEECH PATHOLOGY AND AUDIOLOGY**

PPA 200	F W	Sp S	4	Phonetics
PPA 203		Sp S	4	Intro. to Speech Science
PPA 212	F	S	4	Articulatory Problems and Delayed Speech
PPA 318	W		4	Voice and Cleft Palate
PPA 319	W		4	Stuttering
PPA 405A	F	S	4	Practicum in Speech and Hearing Therapy
PPA 405B	W		4	Practicum in Speech and Hearing Therapy
PPA 405C		Sp	4	Practicum in Speech and Hearing Therapy
PPA 406	W		4	Interpretation of Hearing Tests
PPA 412		Sp	4	Cerebral Palsy
PPA 414	F		4	Anatomy and Physiology of Speech and Hearing Mechanisms
PPA 415	W		4	Aphasia

<u>Course</u>	<u>Offered</u>	<u>Hrs.</u>	<u>Title</u>
I SPPA 416	F	4	Introduction to Audiology
SPPA 419	Sp	4	Communication Problems of the Deaf and Hard of Hearing
SPPA 428	F Sp S	4	Speech Correction for the Classroom Teacher

#### TELEVISION-RADIO

TV-R 100	Sp	4	Process and Effects
TV-R 200	F	4	Survey of Broadcasting
TV-R 201A	F W	4	Broadcast Writing Radio
TV-R 201B	W S	4	Broadcast Writing Television
TV-R 202	F	4	Broadcast Performance
TV-R 300	F Sp	5	Radio Production
TV-R 301	F W Sp	5	Television Production
TV-R 302	F W	4	Broadcast News
TV-R 303	W	4	Broadcast Advertising
TV-R 400	Sp	4	Seminar in Mixed Media
TV-R 401	W S	4	Criticism in the Public Arts
TV-R 402	Sp	4	Seminar in Broadcast Management
TV-R 403	Sp S	4	Seminar in Educational Broadcasting
TV-R 404	W	4	Research in Broadcasting
TV-R 405	F W	4	Television Documentary
TV-R 406	Sp S	4	Special Events
TV-R 407	W	4	International Broadcasting

#### THEATER

THEA 100	F W Sp S		Theater
THEA 200	F W Sp S		Theater
THEA 300	F W Sp S		Theater
THEA 400	F W Sp S		Theater
THEA 404		S 2	Workshop in Dance for Teachers
THEA 410	F	S 3	Children's Theater







Southern Illinois University  
*Bulletin*

*Schedule of Classes, Spring Quarter, 1969*  
*Edwardsville Campus*



## **This Bulletin**

contains the schedule of classes to be offered by the Edwardsville Campus for the spring quarter, 1969, at Edwardsville, Alton, and East St. Louis. It also provides information relative to admission, advisement, registration, and fees.



# Schedule of Classes

*Spring, 1969*

*Edwardsville Campus*



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# University Calendar

<i>WINTER, 1969</i> Quarter Begins	Thursday, January 2 (Classes 4:30 P.M. or later)
Final Examinations	Thursday–Wednesday, March 13–19

<i>SPRING, 1969</i> Quarter Begins	Wednesday, March 26 (Classes 4:30 P.M. or later)
Memorial Day Holiday	Friday, May 30
Final Examinations	Wednesday–Tuesday, June 4–10
Commencement (Edwardsville)	Tuesday, June 10
Commencement (Carbondale)	Wednesday, June 11

<i>SUMMER, 1969</i> Quarter Begins	Tuesday, June 17 (Classes 4:30 P.M. or later)
Independence Day Holiday	Friday, July 4
Final Examinations	Monday–Friday, August 25–29
Commencement (Edwardsville)	Friday, August 29
Commencement (Carbondale)	Saturday, August 30



# Registration Calendars, Spring, 1969

## EDWARDSVILLE CAMPUS

### **January 16–March 26.**

General Studies Advisement, by appointment (call General Studies Office).

### **February 20–March 5.**

Registration, by appointment. Mon.–Fri. 8:00 A.M.–4:30 P.M.; Sat. 8:00 A.M.–2:00 P.M. Additional hours February 24–27, March 3–5, 4:30–7:00 P.M.

### **March 12–15.**

Open registration. Wed.–Fri. 8:30 A.M.–4:00 P.M.; Sat. 8:00–12:00 noon. Additional hours March 12, 13, 4:00–7:00 P.M.

### **March 26.**

Central registration. 8:00 A.M.–7:00 P.M.

## ALTON CENTER

Registration will be held in the Student Union.

### **March 11.**

Open registration. 8:30 A.M.–7:00 P.M.

### **March 25.**

Central registration. 8:30 A.M.–7:00 P.M.

## EAST ST. LOUIS CENTER

### **March 10.**

Open registration. 8:30 A.M.–7:00 P.M.

### **March 24.**

Central registration. 8:30 A.M.–7:00 P.M.

## ALL LOCATIONS

### **March 26.**

Evening classes (4:30 P.M. or later) begin.

### **March 27.**

Day classes begin.

### **April 1.**

Last day to add a class.

### **April 8.**

Last day to be eligible for a refund of fees.

### **April 22.**

Last day to withdraw from a class without receiving a grade.

### **May 20.**

Last day to withdraw from school or a class.

# 1 / General Information

THIS BULLETIN contains the schedule of classes to be offered at the Edwardsville Campus and the Alton and East St. Louis centers for the spring quarter of the 1968-69 school year. It also provides information relative to advisement and registration, fees, and allied information.

The Edwardsville Campus provides a full schedule of class offerings for day and evening students. Freshman and sophomore courses are scheduled for day and evening students at the Alton and East St. Louis centers.

## *Guaranteed Center Schedules*

A program of Guaranteed Schedules for the centers has been established. Certain courses and sections at the centers are guaranteed on schedules extending through the fall, winter, and spring quarters. These classes will not be cancelled; they are coordinated to offer a variety of full-time academic programs for the incoming freshman as a day student, and they permit efficient progress for the new freshman evening student.

Classes at the centers marked with a + in the schedule are part of this program. For details concerning the full year's schedules, see the separate brochure for each center.

## **Admission**

Inquiries concerning admission to Southern Illinois University should be directed to the Admissions Office at Edwardsville. Applications for admission are accepted at any time during the calendar year but should be initiated at least 30 days prior to the start of the quarter which the student plans to attend.

A student must be officially admitted to the University before registration for classes will be permitted. Students who have not completed the admission requirements by the first day of the quarter will not be permitted to register. A student, to be permitted to attend classes at Southern Illinois University, must have completed registration, which includes admission, advisement, sectioning, and payment of fees.

## *Social Security Number*

Each student seeking admission to the University will need to present a social security number for identification purposes. Any local social security office can provide assistance in obtaining a number or replacing a lost card.

At Alton the social security office is at 1623 Washington Street; at East St. Louis the office is at 435 Missouri Avenue; at Edwardsville the Illinois State Employment Office, 111 West Vandalia, provides social security information.

### *Required Tests*

Each student entering Southern Illinois University directly from high school is required to furnish to the University scores on the test battery administered by the American College Testing Program (A.C.T.). These tests are given at regional test centers throughout the United States in October, December, February, May, and August. Information and application blanks are normally available through the high school guidance director or principal, or may be obtained by writing directly to: American College Testing Program, Box 168, Iowa City, Iowa.

A student who finds it impossible to take the A.C.T. tests may have scores from the College Entrance Examination Board (C.E.E.B.) submitted. The specific scores, which must be submitted if the C.E.E.B. tests are submitted, are Scholastic Aptitude Test, English Composition Test, and Mathematics (Intermediate) Test. In order to have identical test data, a student who submits C.E.E.B. test data will be required to submit scores from the A.C.T. no later than one month after registration.

Transfer students are required to furnish A.C.T. scores to the Student Counseling and Testing Center. (A transcript of these scores is available by sending one dollar and a written request to the American College Testing Program in Iowa City.) If the scores are on file at the student's former school, a request should be made for their forwarding. Test scores are not normally sent with a person's transcript of grades and must be requested separately from the appropriate office at the former school. If the A.C.T. tests have not been taken, arrangements to do so should be made.

### *Advisement*

The advisement system requires all new students to have initial advisement through the General Studies Advisement Office. These offices are maintained at each of the centers for the convenience of the student. Freshmen and sophomores will continue to be advised each quarter prior to registration. Following the student's declaring a major (between reaching 64 and 96 hours of credit), the student is assigned to an adviser in his concentration area. Each student is required to declare a concentration upon achieving 96 hours of credit. Probationary students are also required to receive advisement prior to registration.

Graduate students, both classified and unclassified, must have their schedule approved at the Graduate Office before registering.

Students with a declared major in the Education Division must receive advisement from the Division office prior to registering.

All students should arrange to have advisement early to be sure their schedules will be approved before their registration.

### **Required Physical Examinations**

Each new student desiring to enroll at Southern Illinois University is required to have a physical examination completed prior to his initial registration for classes. A special medical form is provided which is to be completed by the student and his personal physician and returned to the University Health Service.



## Registration

Students may register at Edwardsville for classes at any location (see Edwardsville Registration Calendar, p. iv). Students wishing classes at the Alton or East St. Louis Centers, or at a Center and at Edwardsville, may register at that Center during the periods listed on the applicable Registration Calendar. All General Studies students are required to have approval of their schedule by the General Studies Advisement Office.

Each classified graduate student must have his schedule approved by his adviser and the Dean of the Graduate School before registering for classes at the Enrollment Center. Unclassified graduate students need only the approval of the Dean of the Graduate School. Special cards for this purpose are available at the Graduate Office, 3420 Peck Classroom Building.

During the registration process the student goes to the enrollment office where the assignment is made to specific sections of the courses he is to take.

### *New Students*

Students entering the University for the first time are permitted to register only after they have been admitted to the University as evidenced by their receiving the Certificate of Admissions.

Dates for new undergraduate students, freshmen and transfer, will be selective ones in which the students are asked to come to the campus on specific registration dates as determined by the University. Students should not expect to be advised and registered on the same date they are admitted. Appointments for registration will be mailed from the Registrar's Office.

New graduate students after advisement may register during the registration period as shown on the Registration Calendars on page iv. Arrangements should be cleared with the Graduate School to assure that the appropriate adviser will be available before coming to the campus.

### *Re-Entering Students*

Students who have attended the University at some former time but not during the session immediately prior to the time they plan re-entry are expected to register during the periods outlined in the Registration Calendar. Readmission must be completed prior to registration.

### *Current Students, Edwardsville Campus*

For admittance to registration students previously enrolled must present their Southern Illinois University ID cards. No one will be permitted to register without an ID card. Each student currently registered in the University will be continued in his present course of study unless a change of concentration is made. A change of concentration is initiated with the chief academic adviser. The change should be made at the time of advisement; the registrar's copy of the change form should accompany the student's registration. A change of concentration made after a registration has been processed will not be reflected in the student's record until the next registration.

Upperclass students who have declared a concentration and who are currently registered in the University may be self-advised for registration purposes. This does not apply to Business Division or Education Division students. Academic advisement is available and is very desirable. The student should prepare his desired program of classes at each registration period and process through the sectioning area of the enrollment office in accordance with the time of his appointment in order to best achieve the desired schedule of classes and time periods.

*Current Students, Carbondale Campus*

A student currently enrolled in and attending classes on the Carbondale Campus who desires to register on the Edwardsville Campus will initiate his registration at the sectioning area of the enrollment center in Edwardsville in accordance with the registration calendar except that he may register on the first day of the quarter. Each student will complete the intra-university transfer data form to secure information necessary for the Edwardsville data processing center preparation of registration materials. The student who registers on the first day of the quarter should present his most recent grade report to confirm scholastic eligibility to register.

For the purpose of advisement, the student may wish to have a copy of his transcript sent to the Edwardsville Campus prior to registration.

**Payment of Fees**

All fees are payable at the time of registration. Upon payment of fees, the fee statement and receipt card will be stamped by the Business Office and returned to the student as a fee receipt. The card should be carried at all times. It serves as official authorization to attend classes as scheduled and must be presented to obtain books and activity cards and to process program changes.

Students unable to pay fees at the time of registration may secure short-term loans from the Student Work and Financial Assistance Office. This must be done before registering.

*Fees for a Regular Quarter*

The fee schedule is as follows: \*

	Not more than 5 hrs.	More than 5, less than 11	11 or more
Tuition Fee—Illinois Resident .....	\$14.00	\$28.00	\$42.00
Tuition Fee—Out of State Resident .....	(30.00)	(115.00)	(172.00)
Student Welfare and Recreation			
Building Trust Fund Fee .....	5.00	10.00	15.00
Book Rental Fee .....	3.00	6.00	8.00
Student Activity Fee .....	3.50	7.00	10.50
University Center Fee .....	5.00	5.00	5.00
Athletic Fee .....	3.00	6.50	10.00
<i>Total</i> —Illinois Resident .....	\$33.50	\$62.50	\$90.50
<i>Total</i> —Out of State Resident .....	(49.50)	(149.50)	(220.50)

\* Fees are subject to change whenever conditions make changes necessary.



Graduate students do not rent their textbooks and do not pay the book rental fee. They purchase their books.

Students having special fee status, such as scholarship holders, faculty, and staff, will pay fees according to their particular status. Prior to registration this student will go to the Student Work and Financial Assistance Office to secure certification.

*Late Registration Fee*

The first day of a quarter is considered the last day of the regular registration period. Registrations thereafter, including those for classes “to be arranged” are considered late registrations and are assessed an appropriate late registration fee. This fee is \$2.00 the first day and an additional \$1.00 per day to a maximum of \$5.00.

**Changing Fee Status**

Students making program changes which result in their changing from one fee status to a higher fee status will be assessed additional tuition and fees. Students changing from a higher fee status to a lower fee status may apply for a refund provided the reduction in program is made officially by a program change during the same period at the start of a quarter in which students withdrawing from the University are eligible for a refund. This is usually during the first ten days. For dates refer to the Registration Calendars on page iv.

**Academic Load**

The normal class load is 16 quarter hours for undergraduate students and 12 quarter hours for graduate students. The maximum load for both is 18 hours. A student with a 4.25 average or above for the preceding quarter may be allowed by written permission of the chief academic adviser or by the dean of his division to take as many as 21 hours. In no case may a student carry or be credited with more than 21 hours in any quarter. A student on probation may not take more than 14 quarter hours.

A person should not register for more than 8 hours if he is employed full time.

The Selective Service System requires a minimum of 12 hours for an undergraduate and 8 hours for a graduate to qualify for a student deferment. There is a further requirement that he complete 48 hours each year.

The National Defense Education Act requires a minimum of 12 hours to qualify for a student loan.

For students receiving benefits under the “GI Bill” (P.L. 358) the following regulations apply:

	<i>Undergraduate</i>	<i>Graduate</i>
Full benefits	14 or more hrs.	12 or more hrs.
$\frac{3}{4}$ benefits	10–13 hrs.	9–11 hrs.
$\frac{1}{2}$ benefits	7–9 hrs.	6–8 hrs.



### **Prerequisites**

Students are responsible for checking course prerequisites in the undergraduate and graduate catalogs and in this class schedule. Those who do not have specific prerequisites for a course may register for it only if they have had a comparable course or have written consent of the instructor.

### **Auditing of Courses**

A student may register for courses in an "audit" status. He receives no letter grade and no credit for such courses. An auditor's registration card must be marked accordingly. He pays the same fees as though he were registering for credit. He is expected to attend regularly and is to determine from the instructor the amount of work expected of him. If an auditing student does not attend regularly, the instructor may determine that the student should not have the audited course placed on his record card maintained in the Registrar's Office. A student registering for a course for credit may change to an audit status or vice versa only for fully justified reasons and only during the first four weeks of a quarter.

### **Registering for and Dropping Courses**

Mere attendance does not constitute registration in a class, nor will attendance in a class for which a student is not registered be a basis for asking that a program adjustment be approved permitting registration in that class. A student is officially registered only for those courses and sections appearing on his registration cards. Changes can be made only after fees are paid and must be made through an official program change at the Enrollment Center.

A student desiring to make a program change must secure approval of his adviser. He will then go to the Enrollment Center. (A student at East St. Louis or Alton may initiate his request to drop a course by going to the General Office.) He is required to present his fee receipt program card and must complete the following procedure. (1) After having been cleared with the Enrollment Center, program changes for which a program change fee is assessed must be presented to the Business Office for payment. (2) The student immediately returns the program change to the Enrollment Center in the Registrar's Office for final processing. (3) A student has not completed his program change until he presents it to the Enrollment Center. **NO CHANGE IS OFFICIAL UNTIL THE PRECEDING PROCEDURE IS COMPLETED.**

A student who finds it necessary to make an adjustment to his program by adding or dropping a course may do so during normal office hours at the Edwardsville Enrollment Office. (No changes will be made on the first day of the quarter.) A program adjustment must be made to drop or add a course. A student may not drop a course merely by stopping attendance. Failure to officially drop a course may result in academic penalty.

### **Withdrawal from School**

A student who finds it necessary to withdraw from school while the quarter is in progress must report to the Student Affairs Office to initiate official withdrawal action. No withdrawal will be permitted during the last two weeks of a quarter except under exceptional conditions. A refunding of fees is permitted only if a withdrawal is officially completed within the first two weeks of a quarter and if the application for a refund is received in the Registrar's Office within two weeks following the last regular registration period. See the Registration Calendar in this bulletin for the specific dates concerning withdrawal and refunding of fees.

A student who registers and then finds that he cannot attend school must also officially withdraw from school. He may do this by asking the Student Affairs Division to initiate official withdrawal action for him. This must be done by the end of the first two weeks if he expects to get a refund.

### **Cancellation of Registration**

A registration including the payment of tuition and fees may be considered invalid if the student is declared to be ineligible to register due to scholastic reasons. The same situation may exist due to financial or disciplinary reasons if certified to the Registrar by the Director of Student Affairs.

### **Personal Data Changes**

Changes in personal data should be reported promptly. Types of change and method of reporting are:

1. ADDRESS CHANGES. Should be reported immediately either at the time of registration or at the Registrar's Office.
2. NAME CHANGES. Should be made at the Registrar's Office. Verification is required.
3. MARITAL STATUS CHANGES. Should be made at the Registrar's Office.
4. LEGAL RESIDENCE CHANGES (whether an Illinois or out-of-state resident.) Must be requested by completion of the *Application to be Classified an Illinois Resident* form in the Registrar's Office. Before the change is made the student must have met the regulations governing residency status as established by the Board of Trustees.

### **Hospitalization**

Blue Cross and Blue Shield In-hospital Insurance is offered to all students. Cost of the insurance is \$9.00 per quarter for single and \$28.20 per quarter for family plan. This insurance is available at the time of registration.





## 2 / Schedule of Classes

*Except for the Guaranteed Center Schedules, the University reserves the right to cancel, combine, divide, or limit enrollment in any class or classes; to change the date, time, or place of meeting; to make any other revisions in these course offerings which may become desirable or necessary; and to do so without notice and without incurring obligation.*

### Explanation of the Schedule

Courses are listed numerically within each subject-matter area. The entry for each course is arranged as follows:

**First Line:** The course's identification number is followed by the number of quarter hours of credit and the descriptive title. The prerequisites, if any, appear in brackets after the title or on the line immediately below the title.

**Section-Number Lines:** The first column lists the section numbers. Those sections offered at Edwardsville always begin with 0; those sections offered at Alton always begin with 2; those sections offered at East St. Louis always begin with 4. Following each section number is the time the class begins, between 8:00 A.M. and 4:20 P.M. for daytime classes. An ending time is listed only if the class period is longer than 50 minutes. The section number of each evening class has the letter E prefixed. A + indicates a section which is part of the Guaranteed Center Schedule and is not subject to cancellation. The days when the class meets, the place where it meets, and the instructor's last name complete the entry.

The course numbering system is as follows:

000-099 Courses not properly falling in the following categories

100-199 For freshmen

200-299 For sophomores

300-399 For juniors and seniors

400-499 For seniors and graduate students

500-600 For graduate students only

Students registering for courses listed as "Arranged" should consult the instructor indicated, or the head of the division if no instructor is listed, to determine time and place of meeting.

The following list of building abbreviations will help in the location of classrooms.

ANA —Annex A—Alton

CB —Communications Bldg.—Edwardsville

ESL —East St. Louis Center

Gym —Gymnasium—Alton

LB —Lovejoy Memorial Library—Edwardsville

PB —John Mason Peck General Classroom  
Building—Edwardsville

SCI	—Science Building—Alton
SL	—Science Laboratory Building—Edwardsville
397	—Cartography Laboratory—East St. Louis
UC	—University Center—Edwardsville
Wagner	—Wagner Building—Edwardsville

# Final Examination Schedule, Spring Quarter, 1969

## June 4-10, 1969

	Wed. June 4	Thurs. June 5	Fri. June 6	Sat. June 7	Mon. June 9	Tues. June 10
8:00 to 9:40	All classes beginning at 8:30, except Tu and/or Th only	Classes beginning at 8:30 Tu and/or Th only	Classes beginning at 9:30 Tu and/or Th only	At regular class sessions	All classes beginning at 9:30, except Tu and/or Th only	Multiple Section Block (GSA 201a) See Announcement
10:00 to 11:40	Classes beginning at 10:30 Tu and/or Th only	All classes beginning at 11:30, except Tu and/or Th only	All classes beginning at 10:30, except Tu and/or Th only		Classes beginning at 11:30 Tu and/or Th only	Make-up
12:20 to 2:00	All classes beginning at 1:30, except Tu and/or Th only	All classes beginning at 12:30, except Tu and/or Th only	Multiple-Section Block (Speech) See Announcement		Classes beginning at 1:30 Tu and/or Th only	Classes beginning at 12:30 Tu and/or Th only
2:20 to 4:00	Classes beginning at 2:30 Tu and/or Th only	Classes beginning at 3:30 Tu and/or Th only	All classes beginning at 3:30, except Tu and/or Th only		All classes beginning at 2:30, except Tu and/or Th only	Make-up
Evening Classes	At regular sessions			At regular sessions		





101a-5	Introduction to Physical Science [Math 101 or satisfactory score on placement test] Student enrolls in one lecture and one lab.	Lect A	9:30		MTWThF	SL 1105	Zurheide Hakeem Slotboom
		Lect B	1:30		MTWThF	SL 1105	
		Lect eC	6:30-7:50		M W F	SL 1105	
		001	10:30-12:20		M	SL 1217	
		002	12:30-2:20		M	SL 1217	
		003	2:30-4:20		M	SL 1217	
		004	8:30-10:20		T	SL 1217	
		005	10:30-12:20		T	SL 1217	
		006	12:30-2:20		T	SL 1217	
		007	2:30-4:20		T	SL 1217	
		008	8:30-10:20		W	SL 1217	
		009	10:30-12:20		W	SL 1217	
		010	12:30-2:20		W	SL 1217	
		011	2:30-4:20		W	SL 1217	
		012	8:30-10:20		Th	SL 1217	
		013	10:30-12:20		Th	SL 1217	
		014	12:30-2:20		Th	SL 1217	
		015	2:30-4:20		Th	SL 1217	
		016	8:30-10:20		M	SL 1217	
		017	10:30-12:20		F	SL 1217	
		018	12:30-2:20		F	SL 1217	
		019	2:30-4:20		F	SL 1217	
101c-3	Introduction to Physical Science [101a or 101b]	e020	8:00-10:00		M	SL 1217	Bardolph  Bardolph  Bardolph  Bardolph  Bardolph  Bardolph  Bardolph  Bardolph  Bardolph
		e021	8:00-10:00		W	SL 1217	
		001	8:30		T Th	SL 3114	
		002	8:30-10:20		M	SL 1209	
		003	8:30		T Th	SL 3114	
		004	8:30-10:20		W	SL 1209	
		005	8:30		T Th	SL 3114	
		006	8:30-10:20		F	SL 1209	
		007	8:30		T Th	SL 3114	
		008	10:30-12:20		T	SL 1209	
		009	8:30		T Th	SL 3114	
		010	10:30-12:20		W	SL 1209	
		011	8:30		T Th	SL 3114	
		012	10:30-12:20		Th	SL 1209	
		013	2:30-4:20		T Th	SL 3114	
		014	8:30		T Th	SL 1209	





201a-4	Man's Biological Inheritance [High school chemistry] Student enrolls in one lecture and one lab.	003	11:30	11:30-1:20	TWThF	SL 3114	Gore
					T	SL 1215	
		004	11:30	11:30	TWThF	SL 3114	Gore
					M	SL 1215	
		Lect A	8:30		MWF	PB 0312	Frost, CC-TV
		Lect B	8:30		MWF	PB 0314	CC-TV
		Lect C	12:30		MWF	PB 1410	CC-TV
		Lect D	12:30		MWF	PB 0312	CC-TV
		011	8:30-10:20		T	SL 2211	
		012	10:30-12:20		T	SL 2211	
201b-4	Man's Biological Inheritance [201a]	013	12:30-2:20		T	SL 2211	
		014	2:30-4:20		T	SL 2211	
		021	8:30-10:20		W	SL 2211	
		022	10:30-12:20		W	SL 2211	
		023	12:30-2:20		W	SL 2211	
		024	2:30-4:20		W	SL 2211	
		031	8:30-10:20		Th	SL 2211	
		032	10:30-12:20		Th	SL 2211	
		033	12:30-2:20		Th	SL 2211	
		034	2:30-4:20		Th	SL 2211	
312-3	Conservation of Natural Resources	041	2:30		MWF	PB 1410	Broadbooks, CC-TV
			8:30-10:20		F	SL 2211	CC-TV
		042	2:30		MWF	PB 1410	Broadbooks, CC-TV
			10:30-12:20		F	SL 2211	CC-TV
		043	2:30		MWF	PB 1410	Broadbooks, CC-TV
			12:30-2:20		F	SL 2211	CC-TV
		044	2:30		MWF	PB 1410	Broadbooks, CC-TV
			3:30-5:20		F	SL 2211	CC-TV
		001	8:30		MWF	PB 1410	Kircher
		002	8:05-9:20		T Th	PB 1410	Bridwell
314-3	Man's Genetic Inheritance	003	9:30		MWF	PB 1412	Lossau
		004	12:30		MWF	PB 0306	Clements
		005	11:30		MWF	PB 0306	Kazeck
		e006	8:30-9:45		MW	PB 0306	Wallace
		007	11:30-12:45		T Th	PB 0306	
		e201	6:30-7:45		T Th	ANA 101	
		001	8:30		MWF	PB 1412	Frost

322-3	Introduction to Rocks and Minerals	001	10:30	MTWTh	SL 1215	Gore
330-3	Weather	001	9:30	MTWTh	PB 0306	Guffy
331-3	Climate	001	10:30	MTWF	PB 0306	Collier
		002	1:30	MTWF	PB 0306	Collier
		e003	6:30-8:20	M W	PB 0306	Bridwell
		+201	10:30	MTThF	ANA 110	
		+401	10:30	MTWTh	ESL 121	
350-3	Atomic Energy [Completion of GSA 100 level]	001	11:30	M W F	SL 1210	Rockman
		002	8:30	M W F	PB 1307	
352-3	Radiation and Life [201b]	001	8:30	M W F	SL 2224	Wilbraham
356-3	Astronomy [Completion of GSA 100 level]	001	9:30	M W F	PB 0304	
		002	1:30	M W F	SL 3114	Shaw
		e003	8:00-9:15	M W	SL 1210	
363a-3	Philosophy of Science (Same as GSC 363a) [Completion of second-level GSA]	001	9:30	MTTh	PB 0314	Emblom
		002	10:30	MTTh	PB 0314	Emblom

MAN'S SOCIAL INHERITANCE AND SOCIAL RESPONSIBILITIES (GSB)

101b-4	Survey of Western Tradition	001	8:30	M W F	PB 1402	Martin
			8:30	T	PB 2413	
		002	8:30	M W F	PB 1402	Martin
			8:30	Th	PB 2413	
		003	8:30	M W F	PB 1402	Martin
			8:30	T	PB 0314	
		004	8:30	M W F	PB 1402	Martin
			8:30	Th	PB 0314	
		005	8:30	M W F	PB 1402	Martin
			8:30	T	PB 1307	
		006	1:30	M W F	PB 1402	Haas
			1:30	T	SL 1210	
		007	1:30	M W F	PB 1402	Haas
			1:30	Th	PB 1412	
		008	1:30	M W F	PB 1402	Haas
			1:30	T	SL 1224	

				009	1:30	M W F	PB 1402	Haas
					1:30	Th	LB 0042	
				010	1:30	M W F	PB 1402	Haas
					1:30	T	LB 0042	
				e011	6:30-8:20	M W	PB 2403	Martin
101c-4	Survey of Western Tradition			001	9:30	M W F	PB 1402	Steckling
					9:30	T	PB 3404	
				002	9:30	M W F	PB 1402	Steckling
					9:30	Th	PB 3404	
				003	9:30	M W F	PB 1402	Steckling
					9:30	T	PB 2413	
				004	9:30	M W F	PB 1402	Steckling
					9:30	Th	SL 3225	
				005	9:30	M W F	PB 1402	Steckling
					9:30	T	PB 1306	
				006	12:30	M W F	PB 1402	Martin
					12:30	T	SL 0226	
				007	12:30	M W F	PB 1402	Martin
					12:30	Th	SL 1225	
				008	12:30	M W F	PB 1402	Martin
					12:30	T	PB 0312	
				009	12:30	M W F	PB 1402	Martin
					12:30	Th	SL 3225	
				010	12:30	M W F	PB 1402	Martin
					12:30	T	PB 0411	
				e011	8:30-10:20	M W	PB 1306	Wurtz
103a-4	Sociology-Economics			001	8:30	MTWTh	SL 1105	Lauer
				002	9:30	TWThF	PB 1307	Denton
				003	10:30	MTWTh	PB 3302	Farley
				004	2:30-4:20	T Th	PB 2306	Lauer
				005	12:30	TWThF	SL 3114	Grubb
				006	1:30	TWThF	PB 0314	Braswell
				007	2:30	TWThF	PB 3305	Braswell
				e008	6:30-8:20	M W	PB 0312	Franklin
				e009	6:30-8:20	T Th	SL 1105	
				201	8:30	MTWTh	ANA 108	
e401	5:30-7:20	M W	ESL 115	Teer				
103b-4	Sociology-Economics			001	9:30	M W	PB 0312	Carbaugh



201a-4	The Individual and His Cultural Environment	002 10:30 003 12:30 e004 6:30-8:20  e201 6:30-8:20  e401 6:30-8:20  001 9:30 002 10:30 003 1:30  004 3:30-5:20  +e401 8:30-10:20	T Th MTWTh MTWTh T Th  M W  T Th  MTWTh TWT hF M F T Th M W  M W	PB 3303 SL 3114 PB 0304 PB 2405  ANA 101  ESL 115  LB 0044 PB 1402 PB 0312 SL 3114 SL 3114  ESL 113	Livingston Kohn B. Carbaugh  Kohn  D. Carbaugh  Voget Denny Schusky Hayes  Hayes
201 c-4	The Individual and His Cultural Environment	001 10:30-12:20 002 2:30-4:20 003 8:30-10:20  e201 6:30-8:20	T Th M W T Th  T Th	SL 1105 PB 1402 PB 1402  ANA 104	Ferguson Daugherty
203a-4	American Politics in the World Environment	001 8:30-10:20 002 11:30 003 10:30 004 2:30  +e401 8:30-10:20	T Th MTWTh MTWTh MTWTh  T Th	PB 3315 PB 0312 LB 0042 PB 0312  ESL 113	Junz Lee Feeney Maier  Cook
203b-4	American Politics in the World Environment	001 10:30 002 1:30 e003 6:30-8:20  001 8:30 002 12:30 003 2:30 e004 8:30-9:45 e005 6:30-7:45  +201 9:30  +401 9:30	MTWTh MTWTh M W  M W F M W F M W F T Th M W  M W F  M W F	PB 1410 PB 1410 PB 1412  LB 0042 LB 0042 PB 1306 PB 1307 PB 1414  ANA 101  ESL 112	Koepke Bridwell  McCurry Millett McKee Farrar McKee  McKee  Barnhart
300a-3	History of the United States: 1492 to 1815				

300b-3	History of the United States: 1815 to 1900	001 8:30 002 11:30 e003 6:30-7:45	M W F M W F M W	PB 1306 LB 0042 PB 1306	Wilton Grant Barnhart
300c-3	History of the United States: 1900 to Present	001 10:30 002 1:30 e003 6:30-7:45	M W F M W F T Th	PB 1307 LB 0042 PB 1306	Rosenthal Barnhart Grant
311-3	Economic Development of the United States [103b or 101c]	001 12:30-1:50	T Th	PB 3315	D. Carbaugh
318a-3	American State and Local Government	001 9:30	TWTh	SL 1210	McHargue
331-3	The American Educational Systems	001 10:30 002 1:30 003 10:30-11:45 004 8:30-9:45 005 1:30-2:45 e006 5:30-8:20 007 9:30-12:20 008 11:30-12:45	MT Th M W F T Th T Th T Th T S T Th	PB 2403 PB 1306 PB 1307 PB 3302 PB 1306 PB 0312 PB 1412 PB 1306	Goodwin Brooks Taylor Taylor Pierce  Brooks
341-3	Marriage	e201 6:00-8:50 +e401 5:30-8:20	W Th	ANA 104 ESL 214	
369-3	The Contemporary Far East	001 10:30 e001 5:05-6:20	M T W M W	SL 1210 PB 1307	Taylor Bauer
388-3	Communism [Completion of second-level GSB]	001 8:30 002 9:30	MT Th MT Th	PB 0303 PB 0307	Keene Keene
MAN'S INSIGHTS AND APPRECIATIONS (GSC)					
151-3	Introduction to Poetry [GSD 101b]	001 8:05-9:20 002 8:05-9:20 003 8:30 004 8:30 005 8:30 006 8:30 007 9:30	T Th T Th M W F M W F M W F M W F M W F	PB 3422 PB 3409 PB 3422 PB 3409 PB 2413 PB 2414 PB 3422	

008	9:30	M W F	PB 3409
009	9:30	M W F	PB 2414
010	9:30	M W F	PB 2415
011	9:30-10:45	T Th	PB 3422
012	9:30-10:45	T Th	PB 3409
013	10:30	M W F	PB 3422
014	10:30	M W F	PB 3409
015	10:30	M W F	PB 2413
016	10:30	M W F	PB 2414
017	11:05-12:20	T Th	PB 3422
018	11:05-12:20	T Th	PB 3409
019	11:30	M W F	PB 3422
020	11:30	M W F	PB 3409
021	11:30	M W F	PB 2413
022	11:30	M W F	PB 2414
023	12:30	M W F	PB 3422
024	12:30	M W F	PB 3409
025	12:30	M W F	PB 2413
026	12:30	M W F	PB 2414
027	12:30-1:45	T Th	PB 3422
028	12:30-1:45	T Th	PB 3409
029	1:30	M W F	PB 3422
030	1:30	M W F	PB 3409
031	1:30	M W F	PB 2414
032	1:30	M W F	PB 2415
033	2:05-3:20	T Th	PB 3422
034	2:05-3:20	T Th	PB 3409
035	2:30	M W F	PB 3422
036	2:30	M W F	PB 3409
037	2:30	M W F	PB 2414
038	2:30	M W F	PB 2406
039	3:30	M W F	PB 3422
040	3:30	M W F	PB 3409
041	3:30	M W F	PB 2414
042	3:30	M W F	PB 2406
e043	4:30-5:45	T Th	PB 3422
e044	6:30-7:45	M W	PB 3422
e045	8:30-9:45	T Th	PB 3422
+201	8:30	M W F	ANA 110
+202	10:30	M W F	ANA 101
+e203	6:30-7:45	T Th	ANA 100



155-5	Introduction to Art	+e204 +e205	8:30-9:45 8:30-9:45	MW T Th	ANA 110 ANA 110
		+401 +402 +e403 +e404 +e405	8:30 9:30 6:30-7:45 8:30-9:45 8:30-9:45	MW F MW F MW MW T Th	ESL 110 ESL 110 ESL 110 ESL 110 ESL 110
		001 002	10:30 2:30	MTWThF MTWThF	LB 0044 LB 0044
		+e201	6:00-8:20	MW	SCI 200
		401	11:30	MTWThF	ESL 212
156-5	Introduction to Music History-Literature	001	11:30	MTWThF	PB 1402
		+e401	6:00-8:20	T Th	ESL 212
157-5	The Dramatic Media	001	1:30	MTWThF	LB 0044
		+201	10:30	MTWThF	SCI 200
252-4	Logic [Completion of first-level GSC or third quarter freshman]	001 002 003 004 005	8:30-10:20 9:30 10:30 11:30 1:30	T Th MT ThF MT ThF MT ThF TWTh	PB 0312 PB 3316 PB 0304 PB 0304 PB 0312
		006	2:30	W	PB 0306
		007	1:30 11:30 1:30 12:30	TWTh Th TWTh Th	PB 0312 PB 3302 PB 0312 PB 0312
		e008 e009	6:30-8:20 8:30-10:20	T Th T Th	PB 1410 PB 1306
		+401 +e402	11:30 6:30-8:20	MTThF T Th	ESL 112 ESL 116
253-4	Literary Masterpieces of Antiquity [151 ]	001 002	8:30 9:30	MT ThF MT ThF	PB 0403 PB 0403

		003 10:30	MT ThF	PB 0403	
		004 11:30	MT ThF	PB 0403	
		005 11:30	MT ThF	PB 1414	
		006 12:30	MT ThF	PB 0403	
		007 1:30	MT ThF	PB 0403	
		008 2:30	MT ThF	PB 0403	
		009 3:30	MT ThF	PB 0403	
		e010 6:30-8:20	M W	PB 0403	
		+201 11:30	MT ThF	ANA 100	
254-4	Philosophical Masterpieces [Completion of first-level GSC or third quarter freshman]	001 8:30	MT ThF	PB 0307	Helfrich
		002 9:30	MT ThF	PB 0309	Helfrich
		003 9:30	MT ThF	PB 0406	F. Marti
		004 10:30	MT ThF	PB 0307	F. Marti
		005 10:30	MT ThF	PB 0309	Keene
		006 11:30	MTWTh	PB 0406	Glossop
		007 11:30	MT ThF	PB 0408	
		008 12:30	MT ThF	PB 0406	Emblom
		009 12:30	MT ThF	PB 0408	
		010 1:30	MT ThF	PB 0309	Morgan
		+e401 8:30-10:20	T Th	ESL 112	Murdoch
315-3	Studies in Biography [GSC second-level]	001 2:30-3:45	T Th	PB 0307	
335-3	Studies in Short Fiction [GSC second-level]	001 11:30-12:45	W	PB 0403	
		002 12:30-1:45	F	PB 2411	
		e003 6:30-7:45	T Th	PB 0307	
337-3	English Language Heritage [GSC second-level]	001 2:05-3:20	T Th	PB 3315	Collins
339-3	Classical Mythology and Its Influence [GSC second-level]	001 12:30	M W F	PB 0309	Drake
342-3	Modern Art C	001 11:30	M W F	LB 0044	Davis
345c-3	Masterpieces of World Literature [Completion of second-level GSC]	+201 8:30	M W F	ANA 101	
354a-3	History of the Theater	001 2:30	M W F	PB 2306	Archer

354c-3	History of the Theater	001	9:30	M W F	PB 2306	Birdman
357-3	History of Music Literature	001	1:30	M W F	PB 3316	Joseph
360b-3	Arts and Ideals in Famous Cities [Completion of second-level GSC]	001	12:30	MT Th	PB 0314	F. Marti
363a-3	Philosophy of Science (Same as GSA 363a) [Completion of second-level GSC]	001	9:30	MT Th	PB 0314	Emblom
		002	10:30	MT Th	PB 0314	Emblom
375a-3	Ethics [Completion of second-level GSC]	001	11:30	MT Th	PB 0303	Seligman
		002	1:30	MT Th	PB 0303	Seligman
375b-3	Ethics [375a]	001	1:30	MT Th	PB 1307	Glossop
390-3	Existentialism [Completion of second-level GSC]	001	11:30	MT Th	PB 0412	Helfrich
		002	2:30-3:45	M W	PB 0303	Corr
ORGANIZATION AND COMMUNICATION OF IDEAS (GSD)						
101a-3	English Composition	001	8:05-9:20	T Th	PB 2406	
		002	8:30	M W F	PB 2406	
		003	9:30	M W F	PB 2406	
		004	9:30-10:45	T Th	PB 2406	
		005	10:30	M W F	PB 2406	
		006	11:05-12:20	T Th	PB 2406	
		007	11:30	M W F	PB 2406	
		008	12:30	M W F	PB 2406	
		009	12:30-1:45	T Th	PB 2406	
		010	1:30	M W F	PB 2406	
		011	2:05-3:20	T Th	PB 2406	
		012	2:30	M W F	PB 0406	
		013	3:30	M W F	PB 0406	
		014	3:30-4:45	T Th	PB 3409	
		e015	6:30-7:45	M W	PB 3409	
		+e201	6:30-7:45	M W	ANA 110	
		202	1:30	M W F	ANA 100	
		+e401	6:30-7:45	M W	ESL 112	
101b-3	English Composition [101a]	001	8:05-9:20	T Th	PB 2415	



002	8:30	M W F	PB 2415
003	9:30	M W F	PB 2412
004	9:30-10:45	T Th	PB 2415
005	10:30	M W F	PB 2415
006	11:05-12:20	T Th	PB 2415
007	11:30	M W F	PB 2415
008	12:30	M W F	PB 2415
009	12:30-1:45	T Th	PB 2415
010	1:30	M W F	PB 2412
011	2:05-3:20	T Th	PB 2412
012	2:30	M W F	PB 2412
013	3:30	M W F	PB 2412
014	3:30-4:45	T Th	PB 2406
e015	8:30-9:45	T Th	PB 3409
+e201	8:30-9:45	M W	ANA 101
202	9:30	M W F	ANA 100
+e401	8:30-9:45	M W	ESL 112
103-3	Oral Communication of Ideas		
001	8:30	M W	PB 0412
002	8:30	F	PB 2304
003	9:30	T Th	LB 0051
004	9:30	F	PB 2304
		M W F	LB 0042
		M	PB 1307
		W	PB 0413
005	9:30	F	PB 2304
		T Th	LB 0051
		F	PB 2304
006	10:30	M W	CB 0194
		F	PB 2304
007	10:30	T Th	LB 0051
		F	PB 2304
008	10:30	M W F	LB 0051
009	11:30	M W	LB 0051
		F	PB 2304
010	11:30	T Th	LB 0051
		F	PB 2304
011	12:30	M W	PB 2412
		F	PB 2304
012	12:30	T Th	LB 0051
		Robinson	
		Robinson	
		Robinson	
		Stope	
		Stope	
		Branham	
		Branham	
		Stope	
		Hawkins	
		Hawkins	
		Vilhauer	
		Vilhauer	

		013	12:30	M W F	LB 2304	Birdman
		014	1:30	M W F	LB 0051	Wiltz
		015	2:30	M W F	LB 0051	Kluth
		016	2:30	M W F	CB 1015	Salden
		e017	6:30-7:45	M W	CB 1015	Mulvany
		+201	11:30	M W F	ANA 111	Archer
		+e202	8:30-9:45	T Th	ANA 111	Hawkins
		+401	10:30	M W F	ESL 110	Salden
		+402	11:30	M W F	ESL 110	Salden
112b-5	Introduction to Mathematics [112a]	001	2:30	M W F	SL 1105	
			12:30	T Th	PB 0302	
		002	2:30	M W F	SL 1105	
			1:30	T Th	PB 0302	
		003	2:30	M W F	SL 1105	
			2:30	T Th	SL 1210	
		+e401	6:00-8:20	T Th	ESL 113	
114a-5	College Algebra [One and one-half years of algebra, one year of plane geometry]	001	11:30	M W F	SL 1105	
			9:30	T Th	SL 2224	
		002	11:30	M W F	SL 1105	
			10:30	T Th	SL 2224	
		003	11:30	M W F	SL 1105	
			11:30	T Th	SL 1210	
		004	12:30	MTWThF	SL 1210	
		005	1:30	MTWThF	SL 0226	
		e006	6:00-8:20	M W	SL 3225	
114c-4	Trigonometry [114a]	001	8:30	MT ThF	SL 0226	
		002	10:30	MT ThF	SL 1225	
		003	1:30	MT ThF	SL 2224	
		+201	11:30	MTWTh	SCI 002	
		+e401	6:30-8:20	T Th	ESL 122	
114d-4	Statistics [114a]	001	9:30	MT ThF	SL 1225	Hicks
		002	1:30	MT ThF	SL 1225	Stenzel

Stenzel  
Davenport  
  
Davenport

SL 1225  
PB 0312  
PB 3412  
PB 0312  
PB 3412

MTWTh  
M W F  
T  
M W F  
Th

003 2:30  
004 10:30  
10:30  
005 10:30  
10:30

SCI 002

T Th

+e201 6:30-8:20

ESL 122

MTWTh

+401 10:30

Elementary French [GSD 123b or equivalent,  
concurrent registration in Fr 123c]

PB 2409  
CB 1015  
PB 2409

MT Th  
MT Th  
MT Th

001 11:30  
002 11:30  
003 1:30

Elementary German [GSD 126a or equivalent,  
concurrent registration in Ger 126b]

PB 2409

MT Th

001 2:30

Elementary German [GSD 126b or equivalent,  
concurrent registration in Ger 126c]

CB 1015  
PB 2409  
PB 2410

MT Th  
MT Th  
MT Th

001 8:30  
002 10:30  
003 11:30

ESL 110

T Th

+e401 6:30-7:45

Elementary Russian [GSD 136b or equivalent,  
concurrent registration in Russ 136c]

PB 0403

T Th

e001 4:30-5:45

Elementary Spanish [GSD 140b or equivalent,  
concurrent registration in Span 140c]

PB 2409  
Arranged  
PB 2411

MT Th  
MT Th  
MT Th

001 9:30  
002 9:30  
003 2:30

SCI 103

M W

+e201 6:30-7:45

Elementary Italian [GSD 144b or equivalent,  
concurrent registration in Ital 144c]

PB 2410  
PB 0307

MT Th  
MT Th

001 10:30  
002 11:30

HEALTH AND PHYSICAL DEVELOPMENT (GSE)

Archangel

GYM 102

T Th

201 2:30

Moehn  
Luedke

CB 1024  
PB N Patio

T Th  
M W F

001 12:30  
002 2:30

Whitted

ESL 009

T Th

401 1:30

Life Saving (Men)  
  
Physical Fitness (Men)  
Section 002 starts fourth week.

123c-3

126b-3

126c-3

136c-3

140c-3

144c-3

101d-1

102-1

111d-1	Life Saving ( Women)	201	2:30	1 Th	GYM 102	Archangel
112-1	Basic Body Movement (Women)	001	9:30	T Th	CB 1024	Martin
115c-1	Restricted Physical Education [Consent of instructor]	001	1:30	T Th	PB 0412	Martin
116a-1	Beginning Swimming	201	1:30	T Th	GYM 102	Archangel
116b-1	Intermediate Swimming	201	1:30	T Th	GYM 102	Archangel
117a-1	Square Dance	001	11:30	M W	CB 1024	Carpenter
117b-1	Folk Dance	001	1:30	M W	CB 1024	Carpenter
		002	9:30	M W	CB 1024	Carpenter
117c-1	Social Dance	001	2:30	M W	CB 1024	Carpenter
		002	11:30	T Th	CB 1024	Martin
117d-1	Beginning Contemporary Dance	001	1:30	T Th	CB 1024	Martin
117e-1	Intermediate Contemporary Dance	001	1:30	T Th	CB 1024	Martin
117f-1	Basic Rhythms	001	10:30	M W	CB 1024	Carpenter
		002	2:30	T Th	CB 1024	Martin
118a-1	Archery	001	1:30	M W	PB N Patio	Martin
		002	11:30	M W	PB N Patio	Martin
118d-1	Bowling	001	8:30	M W	UC 0017	Martin
		002	9:30	M W	UC 0017	Martin
		003	10:30	T Th	UC 0017	Gallatin
		004	11:30	T Th	UC 0017	Gallatin
		005	10:30	M W	UC 0017	Showers
		006	11:30	M W	UC 0017	Showers
118e-1	Golf	001	9:30	T Th	PB N Patio	Brick
		002	12:30	T Th	PB N Patio	Brick
118f-1	Billiards (Pocket)	001	8:30	MTWTh	UC 0016	
	Section 001 meets first six weeks only.	e201	5:30	M W	Bldg. 272	



118h-1	Tennis	001	10:30	T Th	PB N Patio	Brick
		201	12:30	M W	GYM 102	Brick
118i-1	Volleyball	001	1:30	T Th	PB N Patio	
118w-1	Track and Field Starts fourth week.	001	2:30	M W F	PB N Patio	Whitted
201-3	Healthful Living	001	8:30	M W F	LB 0044	Lee
		002	12:30	M W F	LB 0044	Luedke
		e003	5:30-8:20	W	PB 1402	Brick
		+201	11:30	M W F	ANA 101	Brick
		+401	11:30	M W F	ESL 122	Whitted
ACCOUNTING (ACCT)						
230-4	Accounting Principles [Sophomore standing]	001	12:30-2:20	M W	PB 2304	Mains
		002	10:30-12:20	T Th	PB 2304	Bedel
		e003	6:30-8:20	M W	PB 2304	
		e004	6:30-8:20	T Th	PB 2304	
		+e201	6:30-8:20	M W	SCI 002	
231-4	Financial Accounting Analysis [230]	001	12:30-2:20	M W	PB 3303	Jarett
		002	12:30-2:20	T Th	PB 2304	Nissing
		e003	8:30-10:20	M W	PB 2304	Milles
		e004	8:30-10:20	T Th	PB 2304	Mains
		+e201	8:30-10:20	M W	SCI 002	
330-4	Managerial Cost and Budgeting [231] Consent LIFT for Section 002.	001	10:30-12:20	M W	PB 2405	
		002	10:30-12:20	M W	PB 3305	
		e003	12:30-2:20	W	PB 3305	
			8:30-10:20	M W	PB 3316	
331-4	Principles of Income Taxation [231]	e001	6:30-8:20	M W	PB 2411	Milles
341-4	Cost Accounting Principles [231]	001	8:30-10:20	M W	PB 2304	Jarett
351a-4	Accounting Theory and Problems I [231]	001	8:30-10:20	T Th	PB 2304	Nissing

351b-4	Accounting Theory and Problems II [351a]	e001	6:30-8:20	T Th	PB 2412	Mains
442-4	Advanced Cost Accounting [341]	e001	8:30-10:20	T Th	PB 2412	
453-4	Advanced Accounting Problems [351b]	001	12:30-2:20	T Th	PB 2411	Milles
456-4	Auditing [351b, 442]	001	10:30-12:20	M W	PB 2304	Nissing
538-4	Seminar in Accounting [533, MBA students only]	e001	6:30-10:20	M	PB 3303	Bedel
AEROSPACE STUDIES (A S)						
340-0	Corps Training	001	Arranged			Blahous, Hancock
350-2	Flight Regulations and Navigation [By permit only]	001	Arranged			Hancock
353-3	Professional Officer Course [By permit only, concurrent enrollment in 340]	001 002	9:30 1:30	M WTh M W Th	PB 2413 PB 2413 PB 0306	Blahous Hancock
ANTHROPOLOGY (ANTH)						
305a-3	Peoples and Cultures of the World I: North America	001	11:30	MT Th	PB 2403	Schusky
416-4	Culture Change	001	10:30	MTWTh	PB 2411	Voget
430-4	Archaeology of North America	001	2:30-4:20	T Th	PB 0406	Denny
ART (ART)						
050-3	Avocational Painting	e001	6:20-10:00	T Th	Wagner	Brown
051-3	Avocational Ceramics	e001	6:20-10:00	T Th	Wagner	Holden
100b-5	Basic Studio [100a]	001	2:30-4:20	MTWThF	SL 0225	Allen
100c-5	Basic Studio [100b]	001 002 003	8:30-10:20 10:30-12:20 12:30-2:20	MTWThF MTWThF MTWThF	SL 0218 SL 0218 SL 0218	Huntley Jacobson Milovich

202a-5	Intermediate Studio I [100a,b,c]	001	10:30-12:20	T ThF M W	Wagner SL 0217	Marcell Milovich
202b-5	Intermediate Studio II [100a,b,c]	001	12:30-2:20 12:30-2:20	M W F T Th	SL 0210 SL 0217	Smith Freund
202c-5	Intermediate Studio III [100a,b,c]	001	10:30-12:20 10:30-12:20	M W F T Th	Wagner SL 0217	Cannon Milovich
225c-3	History of World Art	001	8:30-9:45	T Th	LB 0042	Altwater
300a-4	Art Education	001 002	8:30-10:20 10:30-12:20	M W F M W F	SL 0209 SL 0209	Altwater Altwater
300c-4	Art Education [300a]	001	2:30-4:20	M W F	SL 0209	Buddemeyer
305a,b,c-4	Advanced Ceramics [202c]	001	12:30-2:20	MTWTh	Wagner	Cannon
310a,b,c-4	Painting [202a or b or c]	001	2:30-4:20	MTWTh	Wagner	Freund
325a,b,c-4	Studio [By permit only]	001	Arranged		SL 0209	Buddemeyer
349c-3	Renaissance and Baroque Art	e001	7:30-9:00	M W	SL 3114	Jacobson
358a,b,c-4	Prints [202b]	001	10:30-12:20	MTWTh	SL 0210	Smith
365-4	Art Education in the Secondary Schools [By permit only]	001	Arranged		SL 0209	Buddemeyer
393a,b,c-4	Sculpture [202a]	001	8:30-10:20	MTWTh	Wagner	Marcell
401-4	Research in Painting [310-8]	e001	6:30-10:10	T Th	Wagner	Freund
405-4	Studio in Sculpture [393-8]	001	Arranged		Wagner	Marcell
410-4	Research in Prints [358-8]	001	Arranged		SL 0210	Smith
420-4	Research in Pottery [305-8]	001	Arranged		Wagner	Cannon
441-4	Studio in Drawing [202a,b,c]	001	Arranged			Davis
466-2 to 12	Studio in Art Education [300-8]	e001	4:30-7:20	T Th	SL 0209	Buddemeyer

483-3	Research in Art History [By permit only]	001	Arranged			Jacobson
501-4	Seminar in Painting	001	Arranged		Wagner	Freund
502-4	Seminar in Sculpture	001	Arranged		Wagner	Marcell
511-4	Seminar in Prints	001	Arranged		SL 0210	Smith
520-4	Seminar in Pottery	001	Arranged		Wagner	Cannon
560-4	Seminar in Art Education [By permit only]	e001	6:30-9:20	M W	SL 0209	Altwater
566-4	Research in Art Education [By permit only]	001	Arranged			Altwater
571-2 to 5	Readings in Art History [By permit only]	001	Arranged			Jacobson
599-5 to 9	Thesis	001	Arranged			
BIOLOGY (BIOL)						
301c-4	Concepts at the Cellular Level [301b]	001	9:30	M W F	SL 3225	N. Parker
			11:30-2:20	T	SL 3218	
		002	9:30	M W F	SL 3225	N. Parker
			2:30-5:20	T	SL 3218	
302c-5	Concepts at the Organism Level [GSA 201b]	001	12:30	M W F	SL 1105	Keating
			12:30-2:20	T Th	SL 3210	
		002	12:30	M W F	SL 1105	Keating
			2:30-4:20	T Th	SL 3210	
		003	12:30	M W F	SL 1105	Keating
			8:30-10:20	T Th	SL 3210	
		004	12:30	M W F	SL 1105	Keating
			10:30-12:20	T Th	SL 3210	
		005	12:30	M W F	SL 1105	Keating
			4:30-6:20	T Th	SL 3210	
		006	12:30	M W F	SL 1105	Keating
			8:30-10:20	W F	SL 3210	
		007	12:30	M W F	SL 1105	Keating
			10:30-12:20	W F	SL 3210	
302d-5	Concepts at the Organism Level [302a,c, Chem 111b]	001	12:30	MTWF	SL 3225	Ratzlaff
			8:30-11:20	Th	SL 3218	



303c-4	Concepts at the Population Level [303b]	002	12:30	MTWF	SL 3225	Ratzlaff
			11:30-2:20	Th	SL 3218	
		003	12:30	MTWF	SL 3225	Ratzlaff
			2:30-5:20	Th	SL 3218	
		001	10:30	M W F	SL 3225	R. Parker,
311-5	Applied Bacteriology [GSA 201b] Section 001 - St. Joseph Nursing students only. Sections 002 and 003 - Alton Memorial Nursing students only.		1:30-5:20	M	SL 3210	Kumler
		002	10:30	M W F	SL 3225	R. Parker,
			12:30-4:20	W	SL 3210	Kumler
		003	10:30	M W F	SL 3225	R. Parker,
			12:30-4:20	F	SL 3210	Kumler
390c-.4	Undergraduate Biology Seminar [Junior standing]	001	10:30	M W F	PB 2306	Savostin
			8:30-10:20	MT	SL 3218	
		002	10:30	M W F	PB 2306	Savostin
			8:30-10:20	W F	SL 3218	
		003	10:30	M W F	PB 2306	Savostin
406a-3	Cell Organelles and Inclusions [301b]		11:30-1:20	W F	SL 3218	
		001	4:00-5:20	W	SL 3225	R. Parker
		001	2:30	M W F	SL 3225	
		001	Arranged			
		001	Arranged			
406b-1	Readings in Cell Organelles and Inclusions [301b]					
		001	Arranged			
		001	Arranged			
		001	Arranged			
		001	Arranged			
406c-1	Laboratory in Cell Organelles and Inclusions [Consent of instructor]					
		001	Arranged			
		001	Arranged			
		001	Arranged			
		001	Arranged			
486-4	Herpetology [302a, consent of instructor]					
		001	1:30	T Th	SL 3225	Axtell
			2:30-4:20	F	SL 3218	
			1:30-3:20	M	SL 3218	
		001	Arranged			
493-2 to 8	Research in Biology [Consent of instructor]					
		001	Arranged			
		001	Arranged			
		001	Arranged			
		001	Arranged			
521-4	Limnology [Consent of instructor]					
		e001	7:30-8:45	T Th	SL 3225	Thomerson
			9:30-12:20	S	SL 3210	
		e001	4:30-5:20	W	SL 2231	Axtell
		001	Arranged			
590-1	Graduate Biology Seminar [Graduate standing]					
		e001	4:30-5:20	W	SL 2231	Axtell
		001	Arranged			
		001	Arranged			
		001	Arranged			
591-1 to 4	Readings in Biology [Consent of instructor]					
		001	Arranged			
		001	Arranged			
		001	Arranged			
		001	Arranged			
593-1 to 4	Special Problems in Biology [Consent of instructor]					
		001	Arranged			
		001	Arranged			
		001	Arranged			
		001	Arranged			

**BUSINESS ADMINISTRATION (B A)**

540-4	Concepts of Managerial Performance [MBA students only ]	e001	6:30-10:20	Th	PB 3303	Sokolik
545-4	Social Framework of Business [541 ]	e001	6:30-10:20	Th	PB 3316	
549-4	Corporate Policy Formulation and Administration [Final quarter standing]	e001	6:30-10:20	W	PB 3303	Sokolik

**BUSINESS COMMUNICATIONS (B C)**

390-4	Business Communications [GSD 101b, concurrent registration in GBA 340] Consent LIFT for Section 002.	001 002 e003	10:30-12:20 10:30-12:20 12:30-2:20 6:30-8:20	T Th T Th T T Th	PB 2405 PB 3305 PB 3305 PB 3313	Cox  Cox
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**BUSINESS EDUCATION (BS ED)**

201 a-3	Typewriting	001	Arranged		PB 3415	Patsloff
201 b-3	Typewriting	001	Arranged		PB 3415	Patsloff
201 c-3	Typewriting	001	Arranged		PB 3415	Patsloff
221 b-4	Shorthand and Transcription	001	10:30-12:20	M W	PB 3415	Palmer
221 c-4	Shorthand and Transcription [221b ]	001	2:30-4:20	T Th	PB 3415	Palmer
304-3	Advanced Typewriting [201 c]	e001	Arranged		PB 3415	Patsloff
324 b-4	Advanced Shorthand and Transcription [324a ]	e001	6:30-8:20	T Th	PB 3415	Palmer
327-4	Office Theories and Procedures Additional hour to be arranged.	e001	5:30-8:20	W	PB 3415	Brady
341-4	Office Machines Additional hour to be arranged.	e001	5:30-8:20	M	PB 3412	Patsloff
350-4	Consumer Income Management	e001	6:30-8:20	T Th	PB 3315	Maedke

351-4	Foundations of Business Education	001	12:30-2:20	M W	PB 3417	Houser
405-4	Teaching General Basic Business Subjects	001	2:30-4:20	M W	PB 3417	Maedke
408-3	Teaching Data Processing and Bookkeeping Five extra sessions to be arranged.	e001	5:30	M W	PB 3313	Houser
417-4	Application and Fundamentals of Data Processing	001	3:30-5:20	M W	CB 0194	Eirich
427-4	Records Administration	e001	8:30-10:20	T Th	PB 3417	Maedke
503-4	Tests and Measurements in Business Education	e001	8:30-10:20	T Th	PB 3317	Palmer
590-2 to 5	Readings in Business Education	001	Arranged			
591-2 to 5	Individual Research in Business Education	001	Arranged			
599-1 to 9	Thesis	001	Arranged			
<b>CHEMISTRY (CHEM)</b>						
111b-5	Chemical Principles and Inorganic Chemistry [111a]	e001	5:30-7:20	M W	SL 3114	
			7:30-10:20	M	SL 2215	
		e002	5:30-7:20	M W	SL 3114	
			7:30-10:20	W	SL 2215	
		e003	5:30-7:20	M W	SL 3114	
			2:30-5:20	W	SL 2215	
111c-5	Chemical Principles and Inorganic Chemistry [111b]	001	8:30	M W F	SL 3114	Hufker
			8:30-11:20	T Th	SL 2215	
		002	8:30	M W F	SL 3114	Hufker
			11:30-2:20	M W	SL 2215	
		003	8:30	M W F	SL 3114	Hufker
			11:30-2:20	T Th	SL 2215	
		004	8:30	M W F	SL 3114	Hufker
			2:30-5:20	M F	SL 2215	
		005	8:30	M W F	SL 3114	Hufker
			2:30-5:20	T Th	SL 2215	
235-5	General Quantitative Analysis [111c]	001	2:30	M W F	SL 3114	Wilbraham
			11:30-2:20	T Th	SL 2217	
		002	2:30	M W F	SL 3114	Wilbraham
			11:30-2:20	M W	SL 2217	

341c-3	Organic Chemistry [341b]	001	9:30	M W F	SL 2224	Probst
345a,b,c-2	Organic Chemistry Laboratory [305a or 341a]	001	8:30-11:20	T Th	SL 2216	
		002	11:30-2:20	M W	SL 2216	
375-1	Chemistry Seminar [Senior standing]	e001	4:30	M	SL 2224	
411-4	Intermediate Inorganic Chemistry [461a]	e001	7:30-9:20	M W	SL 2224	White
432b-4	Instrumental Analytical Measurements [461a]	e001	5:30	M W	SL 2224	Drew
			6:30-9:20	M W	SL 2217	
		e002	5:30	M W	SL 2224	Drew
			2:30-5:20	M W	SL 2217	
451b-3	Biochemistry [451a]	e001	5:30-6:45	T Th	SL 2224	
461c-4	Physical Chemistry [461b]	001	10:30	M W F	SL 2224	Rands
			8:30-11:20	T	SL 2217	
		002	10:30	M W F	SL 2224	Rands
			8:30-11:20	Th	SL 2217	
490-2	Chemical Literature [235, 305b or 341c]	e001	5:30	T Th	SL 3225	
531-3	Theory of Quantitative Analysis	e001	7:00-8:15	T Th	SL 2224	Firsching
541-3	Advanced Organic Chemistry	e001	8:30-9:45	T Th	SL 2224	Probst
575-1	Graduate Seminar	001	Arranged			
COUNSELOR EDUCATION (C ED)						
305-4	Educational Psychology [By permit only] Section 004 meets first four Fridays only.	001	8:30-10:20	M W	PB 3302	Reeves
		002	1:30-3:20	M	PB 0314	P. Rochester
		003	8:30-10:20	W	PB 0403	
				W	PB 0403	
		e004	5:30-8:20	F	PB 3315	
				M F	PB 0304	Novitskie



410b-2	Dynamics of Campus Leadership	001	1:30-3:20	T	CB 0194	Moore
420-4	Educational Statistics	e001	5:30-8:20	T F	PB 2403	Horvath
	Both sections meet first four Fridays only.	e002	5:30-8:20	ThF	PB 0412	
422-4	Educational Measurements I	e001	5:30-8:20	T F	SL 3114	Boals
501-4	Special Research Problems	001	Arranged			
510-4	College Student Personnel Services	e001	5:30-8:20	Th F	Pract Ctr	
511-4	Educational Implications of Learning Theories	e001	5:30-8:20	M F	LB 0044 LB 0042	
515-4	Psychological Aspects of Education	e001	5:30-8:20	Th F	Pract Ctr	Soper
522-4	Educational Measurements II	e001	5:30-8:20	Th F	PB 1402	
525-4	School Behavior Problems and Their Prevention	e401	5:30-8:20	Th	ESL 112	Meredith
526-4	Guidance of the Individual - Elementary	e001	5:30-8:20	T	Pract Ctr	
535-4	Introduction to Individual Measurement	e001	5:30-8:20	M	PB 2410	Rochester
537-4	Counseling Theory and Practice I	e001	5:30-8:20	Th	SL 3114	Mermis
538-4	Counseling Theory and Practice II	e001	5:30-8:20	W	CB 0194	Soper
541-4	Occupational Information and Guidance	e001	5:30-8:20	M	PB 1402	Ederle
542-4	Basic Principles of Guidance	e001	5:30-8:20	W	LB 0044	Ederle
543-4	Guidance Through Groups	e001	5:30-8:20	M	Pract Ctr	McBride
		e002	5:30-8:20	Th	Pract Ctr	Davis
		e003	5:30-8:20	W	Pract Ctr	Mermis
545f-4	Seminar in Guidance: Pupil Adjustment	e201	5:30-8:20	M	ANA 100	T

562b-4	Adolescent Development in Education	e001	5:30-8:20	Th	PB 0314	Ederle
575c-4	Practicum	001	Arranged			Moore
		002	Arranged			Mermis
		003	Arranged			Soper
<b>ECONOMICS (ECON)</b>						
200-4	Macroeconomics [Sophomore standing]	001	8:30	MTWTh	PB 0304	Luan
		e002	8:30-10:20	T Th	PB 3315	Luan
201-4	Microeconomics [Sophomore standing]	001	8:30	MTWTh	PB 2306	Carbaugh
		002	12:30-2:20	M W	PB 2306	Schwier
		e201	8:30-10:20	M W	ANA 108	Kohn
300-4	The Monetary System and Economic Policy [201]	001	2:30-4:20	T Th	PB 2405	Hashimi
		e002	8:30-10:20	T Th	PB 2405	Burger
310-4	Labor Problems [200, 201]	e001	8:30-10:20	T Th	PB 2410	Sauber
416-4	Money and Banking II [300]	e001	6:30-8:20	T Th	PB 2414	Keran
431-3	Public Finance II: State and Local [330]	001	2:30-3:50	M W	PB 2410	Cohen
440-4	Intermediate Micro Theory [201]	001	10:30-12:20	T Th	PB 3404	Hashimi
441-4	Intermediate Macro Theory [200]	e001	8:30-10:20	T Th	PB 2411	Schwier
472-4	Dynamic Economics: Fluctuations and Growth [441 or consent of instructor]	001	11:30-1:20	M W	PB 1412	Drake
504-4	Economic Analysis [MBA students only]	e001	6:30-10:20	M	PB 3313	Drake
543-4	Seminar in Economic Policy [440, 441 or consent of instructor]	e001	8:30-10:20	M W	PB 3422	Cohen
582-4	Economic Behavior [440 or equivalent or consent of instructor]	e001	8:30-10:20	M W	PB 3409	Dye

EDUCATION ADMINISTRATION (ED AD)

355-4	Philosophy of Education [C Ed 305, consent of undergraduate teacher education advisement office ] Sections 005 and 401 four extra sessions arranged.	001	9:30-11:20	M	PB 1414	Lee
		002	1:30-3:20	W	PB 0406	Lee
		003	10:30-12:20	M W	PB 2403	Hofmann
		004	1:30-3:20	T Th	PB 0411	Taylor
		e005	5:30-8:20	T Th	PB 0411	Aranda
		006	11:30-1:20	M	PB 0408	Aranda
				T Th	PB 0409	Aranda
		e401	5:00-7:50	T	ESL 112	Aranda
456-4	School Supervision	e001	5:30-8:20	T	CB 0194	Helsel
		002	9:00-11:40	S	PB 2409	Boss
500-4	Research Methods	e001	5:30-8:20	T	PB 3305	Jordan
		e002	5:30-8:20	W	PB 2406	Helsel
		e003	5:30-8:20	Th	PB 0303	Pierce
		004	9:00-11:40	S	PB 2410	
		e201	5:30-8:20	Th	ANA 103	Helsel
		e401	5:30-8:20	M	ESL 116	
501-4	Seminar in Educational Administration [Specialist's program]	e001	5:30-8:20	M	PB 0412	Ackerlund
511c-4	Internship Practicum [Consent of instructor and faculty chairman]	001	Arranged			
520-4	Illinois School Law	e001	5:30-8:20	T	PB 0413	Wilkins
524-4	School Administration	e001	5:30-8:20	W	PB 0314	Krchniak
525-4	Personnel Administration	e001	5:30-8:20	Th	PB 3305	Ackerlund
534b-4	School Business Administration	e001	5:30-8:20	M	PB 0314	Wilkins
551-4	Community Junior College Curriculum	e001	5:30-8:20	T	PB 3404	Boss
554-4	Contrasting Philosophies of Education	e001	5:30-8:20	M	PB 1410	Hofmann

556-4	Seminar in Educational Supervision	e001	5:30-8:20	W	Arranged	Wheat
560-4	Curriculum	e201	5:30-8:20	Th	SCI 003	
563-4	Workshop in School Public Relations	e001	5:30-8:20	M	PB 2306	Andree
565-4	The Community Junior College	e001	5:30-8:20	Th	PB 2411	Goodwin
575a-4	Individual Research (Curriculum) [Consent of instructor and faculty chairman]	001	Arranged			
575b-4	Individual Research (Supervision) [Consent of instructor and faculty chairman]	001	Arranged			
575c-4	Individual Research (Buildings) [Consent of instructor and faculty chairman]	001	Arranged			
575d-4	Individual Research (Finance) [Consent of instructor and faculty chairman]	001	Arranged			
575e-4	Individual Research (School Law) [Consent of instructor and faculty chairman]	001	Arranged			
575f-4	Individual Research (Comparative Education) [Consent of instructor and faculty chairman]	001	Arranged			
575g-4	Individual Research (History of Education) [Consent of instructor and faculty chairman]	001	Arranged			
575h-4	Individual Research (Philosophy of Education) [Consent of instructor and faculty chairman]	001	Arranged			
575j-4	Individual Research (Administration) [Consent of instructor and faculty chairman]	001	Arranged			
575k-4	Individual Research (Elementary Administration) [Consent of instructor and faculty chairman]	001	Arranged			
580-4	Research Seminar in Urban Education	e001	5:30-8:20	Th	Arranged	Gore



596-4	Independent Investigation	001	Arranged				
597-1 to 3	Thesis [Consent of instructor and faculty chairman]	001	Arranged				
<b>EDUCATION ELEMENTARY (ED EL)</b>							
203-4	Understanding the Elementary School Child	+401	8:15-10:05	T Th	ESL 110		
314-4	Elementary School Methods [Ed Ad 355, consent of undergraduate teacher education advisement office] For any day section, student enrolls for one class meeting per week and schedules a three-hour professional laboratory held weekly in a public school during school hours. The evening student must arrange equivalent laboratory time.	001	9:30-11:20	T	PB 0409	Steinbrook	
		002	1:30-3:20	W	PB 0309	Steinbrook	
		e003	5:30-7:20	W	PB 0409	Brooks	
337-4	Reading in the Elementary Schools [314] Section 002 four extra sessions arranged.	001	2:30-4:20	M	PB 0307	Starr	
		e002	5:30-8:20	W T	PB 0408 PB 0412	Starr	
350d-8 to 12	Kindergarten-Primary Student Teaching [316, consent of student teaching office]	001	Arranged				
350e-4 to 8	Advanced Kindergarten-Primary Student Teaching	001	Arranged				
351d-8 to 16	Elementary Student Teaching [314]	001	Arranged				
351e-4 to 8	Advanced Elementary Student Teaching	001	Arranged				
413-4	Children's Literature	001	9:00-12:00	S	PB 1306		
415-4	Improvement of Instruction in Arithmetic in the Elementary School	001	9:30-11:20	T Th	PB 0303	Brooks	
437-4	Problems in Reading Four extra sessions to be arranged.	e001	5:30-8:20	W	PB 1410		
442-4	Science for the Elementary Teacher [314]	e001	5:30-8:20	Th	PB 0411	Bliss	
505-4	Improvement of Reading Instruction	e001	5:30-8:20	T	PB 2410	Richardson	
		e002	5:30-8:20	Th	PB 0312	Bliss	

509-4	Practicum in Reading	001	Arranged				
510-4	Higher Education in the United States	e001	5:30-8:20	Th	Arranged	Pierce	
515-4	Special Problems in the Teaching of Arithmetic in the Elementary School	e001	5:30-8:20	W	PB 0408		
518-4	Supervision of Student Teachers	e401	5:30-8:20	M	ESL 214	Wehling	
521b-4	Diagnosis and Correction of Reading Disabilities [521 a, consent of instructor]	Lect e	5:30-7:20	Th	PB 0405	Richardson	
	Student enrolls for lecture and one clinic.	Clinic 1	8:00-9:30	S	PB 0405		
		Clinic 2	9:30-11:00	S	PB 0405		
		Clinic 3	11:00-12:30	S	PB 0405		
521c-4	Diagnosis and Correction of Reading Disabilities [521 b, consent of instructor]	Lect e	5:30-7:20	T	PB 0405	Bear	
	Student enrolls for lecture and one clinic.	Clinic 1	8:00-9:30	S	PB 0405		
		Clinic 2	9:30-11:00	S	PB 0405		
		Clinic 3	11:00-12:30	S	PB 0405		
542-4	Language Arts in the Elementary School	e001	5:30-8:20	W	PB 2410	Jordan	
543-4	Teaching the Social Studies in the Elementary School	e001	5:30-8:20	T	PB 0303		
553-4	Practicum in Urban Education	001	Arranged			Swerdlin	
		002	Arranged			Darnell	
561-4	The Elementary School Curriculum	001	9:00-11:40	S	PB 1414	Comer	
567c-4	Teaching Competencies and Their Application [Consent of instructor or faculty chairman]	001	Arranged			Darnell	
		002	Arranged			Harmin	
575a-4	Individual Research (Curriculum) [Consent of instructor and faculty chairman]	001	Arranged				
575b-4	Individual Research (Supervision) [Consent of instructor and faculty chairman]	001	Arranged				
575c-4	Individual Research (Language Arts) [Consent of instructor and faculty chairman]	001	Arranged				

575d-4	Individual Research (Science) [Consent of instructor and faculty chairman]	001	Arranged			
575e-4	Individual Research (Reading) [Consent of instructor and faculty chairman]	001	Arranged			
575f-4	Individual Research (Social Studies) [Consent of instructor and faculty chairman]	001	Arranged			
575g-4	Individual Research (Elementary Education) [Consent of instructor and faculty chairman]	001	Arranged			
575h-4	Individual Research (Arithmetic) [Consent of instructor and faculty chairman]	001	Arranged			
575j-4	Individual Research (Problems in Kindergarten-Primary) [Consent of instructor and faculty chairman]	001	Arranged			
580-4	Research Seminar in Urban Education	e001	5:30-8:20	Th	Arranged	Gore
596-5 to 9	Independent Investigation [Consent of instructor and faculty chairman]	001	Arranged			
597-1 to 3	Thesis [Consent of instructor and faculty chairman]	001	Arranged			
EDUCATION SECONDARY (ED S)						
315-4	High School Methods [Ed Ad 355, consent of undergraduate teacher education advisement office] For any day section student enrolls for one class meeting per week and schedules a three-hour professional laboratory held weekly in a public school during school hours. The evening student must arrange equivalent laboratory time.	001 002 e003 004 005	11:30-1:20 2:30-4:20 5:30-8:20 9:30-11:20 9:30-11:20	M T T Th F	PB 0409 PB 0409 PB 2411 CB 0194 PB 0411	Schnabel McKee Harrell Schnabel McKee

352d-8 to 16	Secondary Student Teaching [315, consent of student teaching office]	002 to 025	Arranged			
002	Art					013 History
003	Biology					016 Journalism
004	Business					017 Mathematics

		006 Economics		007 English		008 Foreign Language		009 General Science		010 Geography		011 Government		012 Health Education		019 Physical Education		020 Physics		021 Sociology		022 Social Studies		023 Speech		024 Library Service		025 Psychology	
352e-4 to 8	Advanced Secondary Student Teaching [352d] (See listing under 352d)	002 to 025 Arranged																											
488-4	Teaching the Social Studies in Secondary Schools	e001 5:30-8:20														W PB 0412													
505-4	Improvement of Reading Instruction	e001 5:30-8:20 e002 5:30-8:20														T PB 2410 Th PB 0312 Richardson Bear													
507-4	Readings in Reading	001 Arranged																											
508-4	Seminar: Trends in Selected Areas in Secondary Schools	e001 5:30-8:20														T LB 0044													
509-4	Practicum in Reading	001 Arranged																											
510-4	Higher Education in the United States	e001 5:30-8:20														Th Arranged Pierce													
518-4	Supervision of Student Teachers	e401 5:30-8:20														M ESL 214 Wehling													
521b-4	Diagnosis and Correction of Reading Disabilities [521a, consent of instructor] Student enrolls for lecture and one clinic.	Lect e 5:30-7:20 Clinic 1 8:00-9:30 Clinic 2 9:30-11:00 Clinic 3 11:00-12:30														Th PB 0405 Richardson S PB 0405 S PB 0405 S PB 0405													
521c-4	Diagnosis and Correction of Reading Disabilities [521b, consent of instructor] Student enrolls for lecture and one clinic.	Lect e 5:30-7:20 Clinic 1 8:00-9:30 Clinic 2 9:30-11:00 Clinic 3 11:00-12:30														T PB 0405 Bear S PB 0405 S PB 0405 S PB 0405													
553-4	Practicum in Urban Education	001 Arranged 002 Arranged														Swerdlin Darnell													
562-4	The High School Curriculum	001 9:00-11:40														S PB 2403													

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564-4	High School Principalship	e001	5:30-8:20	T	PB 0314	Andree
567c-4	Teaching Competencies and Their Application [Consent of instructor or faculty chairman]	001 002	Arranged Arranged			Darnell Harmin
575a-4	Individual Research (Curriculum) [Consent of instructor and faculty chairman]	001	Arranged			
575b-4	Individual Research (Supervision) [Consent of instructor and faculty chairman]	001	Arranged			
575c-4	Individual Research (Language Arts) [Consent of instructor and faculty chairman]	001	Arranged			
575d-4	Individual Research (Science) [Consent of instructor and faculty chairman]	001	Arranged			
575e-4	Individual Research (Reading) [Consent of instructor and faculty chairman]	001	Arranged			
575f-4	Individual Research (Social Studies) [Consent of instructor and faculty chairman]	001	Arranged			
575g-4	Individual Research (Secondary Education) [Consent of instructor and faculty chairman]	001	Arranged			
575h-4	Individual Research (Higher Education) [Consent of instructor and faculty chairman]	001	Arranged			
575j-4	Individual Research (Junior College) [Consent of instructor and faculty chairman]	001	Arranged			
580-4	Research Seminar in Urban Education	e001	5:30-8:20	Th	Arranged	Gore
596-5 to 9	Independent Investigation [Consent of instructor and faculty chairman]	001	Arranged			
597-1 to 3	Thesis [Consent of instructor and faculty chairman]	001	Arranged			

## ENGINEERING (ENGR)

101b-3	Engineering Graphics [101a]	001	1:30-3:20	M W F	SL 1216	Bishop
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101 c-3	Engineering Graphics [101b]	001 002 e003	8:30-10:20 10:20-12:20 6:30-9:20	M W F M W F M T	SL 1216 SL 1216 SL 1216	Bishop Bishop
200c-3	Circuit Analysis [200b]	001	12:30	M W F	SL 0226	Hord
201 c-4	Circuit Analysis Laboratory [201b]	001 002	2:30-5:20 11:30-2:20	T T	SL 1212 SL 1212	Brown Hord
260b-4	Engineering Mechanics [260a]	001	2:30	MWThF	SL 0226	Jones
310b-3	Physical Electronics [Phys 300]	001	1:30	M W F	SL 2231	Brown
363a-3	Surveying	001	9:00-2:00	S	SL 1225	Trinidad
470b-4	Geodesy [Math 305b]	001	3:30-5:20	T Th	SL 2224	G'Schwind
523-3	Digital Simulation Techniques [Bachelor's degree in engineering, mathematics, or physical science]	e001	4:30-5:45	M W	CB 0186	Rutledge
ENGLISH (ENG)						
300-4	Principles of English Grammar [Second-level GSC]	001 e002	11:30 6:30-8:20	MTThF T Th	PB 2412 PB 0309	
302a-4	Survey of English Literature to 1550 [Second-level GSC]	001	9:30	MTThF	PB 0413	
302b-4	Survey of English Literature 1550-1750 [Second-level GSC]	001	8:30	MTThF	PB 2410	
302c-4	Survey of English Literature 1750-Present [Second-level GSC]	001 002 e003	10:30 2:30 8:30-10:20	MTThF MTThF M W	PB 2412 PB 0408 PB 0302	
309a-4	Survey of American Literature to 1860 [Second-level GSC]	e001	4:30-6:20	T Th	PB 0309	
309b-4	Survey of American Literature since 1860 [Second-level GSC]	001	11:30	MTThF	PB 0314	
365-4	Shakespeare [Second-level GSC]	001	12:30	MTThF	PB 0303	

391-3	Usage in Spoken and Written English [Second-level GSC]	001 9:30 002 2:05-3:20 e003 8:30-9:45	MTTh T Th M W	PB 0408 PB 1414 PB 0314	
404c-4	Middle English Literature: Canterbury Tales [Second-level GSC, junior standing]	e001 4:30-6:20	M W	PB 3422	Drake
405b-4	Descriptive Linguistics [Second-level GSC, junior standing]	e001 4:30-6:20	T Th	PB 2415	VanSyoc
412c-4	English Non-Dramatic Literature: 18th Century [Second-level GSC, junior standing]	001 9:30	MTThF	PB 2403	Slattery
420b-4	American Poetry: Modern [Second-level GSC, junior standing]	001 10:30	MTThF	PB 0408	Joost
431c-4	Major American Writers [Second-level GSC, junior standing]	001 1:30	MTThF	PB 0408	Zanger
441-4	The Eighteenth Century Essay [Second-level GSC, junior standing]	e001 6:30-8:20	T Th	PB 3422	Graham
460d-4	English Drama: Modern British [Second-level GSC, junior standing]	001 2:30	MTThF	PB 0306	Going
473-4	Milton [Second-level GSC, junior standing]	001 11:30-1:20	T Th	PB 2414	Revard
485-4	Problems in the Teaching of English [Second-level GSC, junior standing]	001 9:00-12:20	S	PB 0307	Steinman, Frogner
492-4	Professional Writing II [Second-level GSC, junior standing]	001 9:00-12:20	S	PB 3409	Havens
520-4	Studies in Romantic Writers: Gothic Novel [Graduate standing]	e001 6:30-8:20	M W	PB 2414	Duncan
521-4	Studies in Victorian Poetry: Browning [Graduate standing]	e001 4:30-6:20	T Th	PB 2414	Going
538-4	Problems in American Literature [Graduate standing]	e001 8:30-10:20	T Th	PB 2414	Austin
585-4	Teaching College Composition [Graduate standing]	001 10:30-12:20	M W	PB 3317	Murphy

367-4	Literature for Young People [Graduate standing]	e001	6:30-8:20	T Th	PB 3409	Frogner
<b>FINANCE (FIN)</b>						
320-4	Corporation Finance [Acct 230, 231, Econ 200, 201]	001	8:30-10:20	T Th	PB 3313	Glynn
		e002	8:30-10:20	M W	PB 3404	Glynn
420-4	Problems in Corporation Finance [320]	e001	6:30-8:20	M W	PB 3302	Glynn
425-4	Investments [420]	001	12:30-2:20	T Th	PB 2413	Livingston
<b>FOREIGN LANGUAGES (F L)</b>						
<b>FRENCH (FR)</b>						
123c-1	French Conversation [Concurrent registration in GSD 123c]	001	11:30	F	PB 2409	
		002	11:30	F	CB 1015	
		003	1:30	F	PB 2409	
201c-3	Intermediate French [201b or consent of chairman]	001	1:30	M W F	PB 2410	
		002	12:30	M W F	PB 0307	
220-2	Intermediate French Conversation [201c or concurrent registration in 201c or consent of chairman]	001	11:30	T Th	PB 0309	
		002	12:30	T Th	PB 0412	
230b-10	Intermediate Intensive French [230a or consent of chairman]	001	9:30 12:30	MTWThF MTWThF	PB 2410 PB 2410	
301c-4	French Literature from the 18th Century to the Contemporary Period [201c and one quarter 220 or consent of chairman]	001	2:30-4:20	M W	PB 2413	
311c-3	French Culture and Civilization [201c and one quarter 220 or consent of chairman]	001	1:30-2:45	T Th	PB 2414	
499-3 to 9	Readings in French [201 and consent of chairman or graduate standing]	001	Arranged			
<b>GERMAN (GER)</b>						
126b-1	German Conversation [Concurrent registration in GSD 126b]	001	2:30	F	PB 2409	



126c-1	German Conversation [Concurrent registration in GSD 126c]	001 8:30 002 10:30 003 11:30 +e401 7:55-8:20	F F F T Th	CB 1015 PB 2409 PB 2410 ESL 110
201c-3	Intermediate German [201b or consent of chairman]	001 1:30	M W F	PB 0406
220-2	Intermediate German Conversation [201c or concurrent registration in 201c or consent of chairman]	001 1:30	T Th	PB 0406
316c-4	German Literature from Romanticism to Modern Times [201c and one quarter 220 or consent of chairman]	001 2:30-4:20	T Th	PB 2413
408-4	German Civilization [Graduate standing]	e001 5:30-7:20	M W	PB 2413 Guenther
ITALIAN (ITAL)				
144c-1	Italian Conversation [Concurrent registration in GSD 144c]	001 10:30 002 11:30	F F	PB 2410 PB 0307
201c-3	Intermediate Italian [201b or consent of chairman]	e201 6:30-7:45	M W	ANA 100
220-2	Intermediate Italian Conversation [201c or concurrent registration in 201c or consent of chairman]	e201 7:55-8:45	M W	ANA 100
RUSSIAN (RUSS)				
136c-1	Russian Conversation [Concurrent registration in GSD 136c]	e001 5:55-6:20	T Th	PB 0403
SPANISH (SPAN)				
140c-1	Spanish Conversation [Concurrent registration in GSD 140c]	001 9:30 002 9:30 003 2:30 +e201 7:55-8:20	F F F M W	PB 2409 PB 0306 PB 2411 SCI 103

201 c-3	Intermediate Spanish [201b or consent of chairman]	001 12:30 003 12:30	M W F M W F	PB 2409 PB 0412	
220-2	Intermediate Spanish Conversation [201c or concurrent registration in 201c or consent of chairman]	001 12:30 002 12:30	T Th T Th	PB 2409 PB 0309	
301 c-4	Spanish Literature from the Medieval Period Through Romanticism [201c and one quarter 220 or consent of chairman]	001 2:30-4:20	T Th	PB 2415	
311 c-3	Spanish Culture and Civilization [201c and one quarter 220 or consent of chairman]	001 2:30-3:45	M W	PB 2415	
505-3	The Picaresque Novel [Graduate standing]	e001 5:00-7:50	W	PB 3317	Osiek
GENERAL BUSINESS ADMINISTRATION (GBA)					
140-4	Introduction to Business	001 12:30-2:20	T	PB 1402	Ingwersen, Potter
		12:30	Th	PB 1410	Ingwersen
		1:30	Th	PB 1402	Ingwersen,
		002 12:30-2:20	T Th	PB 1402	Potter
		003 12:30-2:20	T	PB 1402	Ingwersen,
		12:30	Th	PB 1414	Potter
		1:30	Th	PB 1402	Miller
		004 2:30-4:20	M W	PB 3303	Meador
		e005 6:30-8:20	M W	PB 3305	Meador
		e006 8:30-10:20	T Th	PB 3313	Blackledge
		+e201 6:30-8:20	T Th	ANA 108	Carr
		+e401 6:30-8:20	M W	ESL 113	Blackledge
340-4	Organizational Behavior and Decision-Making [140, GSB 103a, 201a,c]	001 12:30-2:20 002 12:30-2:20 e003 6:30-8:20	M W T Th M W	PB 2405 PB 2405 PB 2405	Jain Potter Jain
341-4	Organizational Problems [340] Consent LIFT for Section 002.	001 8:30-10:20 002 8:30-10:20	T Th T Th	PB 2405 PB 3305	Pierce McKinney

342-4	Contracts—Agency Law	e003	12:30-2:20 8:30-10:20	Th M W	PB 3305 PB 3315	McKinney
440-4	Legal Environment of Business [140]	001	10:30-12:20	M W	PB 3315	Blackledge
441-4	Business Policy [341, senior standing]	001	10:30-12:20	T Th	PB 3313 PB 3302	Scott Scott
	GEOGRAPHY (GEOG)	e001	8:30-10:20	T Th	PB 2403	
302-4	Introduction to Physical Geography	001	1:30	TWThF	SL 1215	Yarbrough
306-4	Introduction to Cultural Geography	001	2:30	MTWTh	PB 1412	Baker
310b-3	Introduction to Cartographic Methods	001	1:30-3:20	T Th	SL 1216	Guffy
403b-3	Advanced Physical Geography II	001	3:30-4:45	T Th	SL 1215	Yarbrough
410b-4	Quantitative Methods in Geography (Same as Govt 428-4)	e001	6:30-8:20	T Th	PB 0406	Guffy
416b-4	Cartography	001	8:30-12:00	S	SL 1216	McCarron
426c-4	Photogrammetry Saturday morning labs to be included.	001	Arranged			Moellman
461b-3	Advanced Regional Geography: Anglo America	e001	5:30-8:20	T	PB 1412	Baker
464a-4	Advanced Regional Geography: Soviet World	001	10:30	MTWTh	PB 1412	Kircher
467b-4	Advanced Regional Geography: Latin America	001	1:30	MTWF	PB 1412	Thompson
470c-4	Urban Planning: Field Problems	e001	6:30-8:20	M W	LB 0051	Johnsen
471b-4	Regional Planning	e001	5:30-7:20	T Th	PB 0306	Kahn
490c-2	Tutorial in Geography	001	Arranged			Gore
521-3	Seminar in Economic Geography	e001	6:30-9:20	Th	PB 1412	Kircher, Koepke

527-4	Seminar in Urban and Regional Planning	e001	5:30-8:20	W	SL 1216	Lossau
530-2 to 4	Independent Studies in Geography	001	Arranged		SL 1216	Collier
599-4 to 8	Thesis	001	Arranged			Kazeck
GOVERNMENT (GOVT)						
200-4	Introduction to Political Science	001	1:30	MTWTh	PB 0304	Feeney, Lee
340b-4	The American Legislative Process [GSB 203a]	001	3:30	MTWTh	PB 0314	Lee
340c-4	The American Judicial System [GSB 203a]	001	9:30	TWThF	PB 1414	Kerr
350b-4	Political Systems of Major European States: France and Italy [200]	e001	6:30-8:20	MW	PB 0413	Feeney
410b-4	Quantitative Methods in Political Science [Same as Geog 410b-4]	e001	6:30-8:20	T Th	PB 0406	Lee, Guffy
423-4	Comparative Public Administration [320]	001	11:30	MTWTh	PB 2411	McHargue
456-4	Topics in Comparative Politics [350 or 355]	e001	4:30	TWThF	PB 0314	Maier
473c-4	Foreign Policy of Western European States	001	10:30	TWThF	PB 1414	Glaser
484c-4	History of Western Political Theories (Same as Phil 484c)	001	8:30	MTThF	PB 0309	Runkle
495c-4	Constitutional Law [GSB 203a]	001	1:30	TWThF	PB 0413	Kerr
499-4	Scope and Method of Political Science [20 upper-division hours in government]	e001	8:30-10:20	T Th	PB 0302	Ellsworth
555-3	Seminar in Comparative Politics [Consent of instructor]	e001	6:30-9:20	M	Arranged	Maier
575-3	Seminar in International Relations [Consent of instructor]	e001	5:30-8:20	W	Arranged	Glaser
HEALTH EDUCATION (H ED)						
302s-4	Driver Education and Training	001	1:30	MTWThF	PB 3317	Klein



355-4	Introduction to Public Health	e401	5:30-8:50	Th	ESL 211	Grist
460-4	Methods and Materials in Secondary School Health Education	e001	5:30-8:50	T	PB 2409	Klein
471-4	Organization and Administration of School Health Education	001	10:30	MTWTF	PB 0412	Klein
HISTORY (HIST)						
100-3	Survey of Ancient History	001 e002	2:30 6:30-7:45	M W F M W	PB 1307 PB 1307	Wurtz Wurtz
102-4	Survey of Asian Civilization	001 002	8:30 12:30	MTWTh MTWTh	PB 1414 PB 1307	Bauer Bauer
306c-3	History of Rome: Eastern Empire [100]	001	10:30	M W F	PB 0302	Astour
309-4	The Negro in America	001	2:30	MTWTh	PB 0413	Riddleberger
372a-3	History of Russia: 900-1801 [GSB 101b,c]	001	8:05-9:20	T Th	PB 0408	Santoni
372c-3	History of Russia: Since 1914 [GSB 101b,c]	e001	5:05-6:20	M W	PB 1414	Santoni
405-3	The American Civil War [Junior standing]	e001	8:30-9:45	T Th	PB 0408	Riddleberger
412b-3	Intellectual History of United States: 19th Century [Junior standing]	001	12:30	M W F	PB 0302	Rosenthal
417c-4	Advanced English History: English Culture in the Age of American Revolution [Junior standing]	001	11:30	M W F T	PB 0309 PB 3302	Haas
430c-3 452-3	Late Modern Europe: Since 1918 [GSB 101c] Historical Research and Thesis Writing [Junior standing]	001 001	9:30 8:05-9:20	M W F M F	PB 0412 PB 3317	Kimball Astour
460c-3	Social and Intellectual History of the Middle Ages: 1250-1500 [Junior standing]	001	1:30	M W F	PB 0412	Steckling
473b-3	The Caribbean Area: Central America [Junior standing]	e001	8:30-9:45	M W	PB 0408	Millett
474-3	United States-Mexican Relations [Junior standing]	001	10:30	M W F	PB 0303	Millett

500-4	History Seminar [Graduate standing] Additional hours to be arranged.	e001	5:00	W	PB 1306	Kimball
519-4	The Age of Jefferson [Graduate standing]	e001	6:30-8:20	T Th	PB 2415	McCurry
530-4	City-States of the Italian Renaissance [Graduate standing]	001	2:30	MTThF	PB 0412	Erickson

#### HONORS HOURS (H H)

Honors Hours courses will be arranged as needed for those students registered in the Deans College. Student should contact Dr. Eric Sturley, Coordinator, for permission to enroll in these courses.

#### HUMANITIES (HUM)

303-3 to 4	Humanities Honors [By permit only] Section 001—Reality and Fantasy in Modern Spanish Theater. Section 002—The Free Will Problem.	001	12:30-1:45	T Th	PB 2412	Heard
		e002	6:30-7:45	T Th	PB 3317	Glossop

#### INSTRUCTIONAL MATERIALS (I M)

403-4	School Library Functions and Management	e001	5:30-8:20	M	PB 0409	Holzberlein
407-4	Basic Reference Sources	e001	5:30-8:20	T	PB 0409	Holzberlein
417-4	Audio-Visual Methods in Education Student enrolls in one lecture section, one quiz section, and one hour per week self-instruction.	Lect A	11:30-1:20	M	SL 3114	Thota
		Lect eB	5:30-7:20	W	PB 0304	Thota
		001	9:30	M	PB 0409	
		002	10:30	M	PB 0409	
		003	2:30	M	PB 0410	
		004	3:30	M	PB 0410	
		005	9:30	T	PB 0410	
		006	10:30	T	PB 0410	
		007	11:30	T	PB 0410	
		e008	5:30	T	PB 0410	
		009	9:30	W	PB 0410	
		010	10:30	W	PB 0409	
		011	11:30	W	PB 0410	
		012	2:30	W	PB 0410	
		e013	4:30	W	PB 0410	
		e014	7:30	W	PB 0409	

420-4	School Library Activities and Practice	e001	5:30-8:20	Th	PB 0413	Holzberlein
445-4	Preparation of Teacher-Made Audio-Visual Materials	e001	5:30-8:20	M	PB 0410	Madison
		e002	5:30-8:20	Th	PB 0409	Madison
		003	9:00-11:40	S	PB 0409	
457-4	Radio and Television in the Classroom	e001	5:30-8:20	W	PB 0411	Gilligan
458-4	The Medium of the Motion Picture	e001	5:30-8:20	Th	PB 2410	Gilligan
510-4	Mass Communications in Education	e001	5:30-8:20	T	PB 0411	
547-4	School Film and Filmstrip Production [440 or consent of instructor]	001	9:00-11:40	S	PB 0411	Gilligan
548-4	Supervision and Administration of an Audio-Visual Program	e001	5:30-8:20	M	PB 0411	
JOURNALISM (JRNL)						
202-3	News Writing and Editing II [201]	001	1:30-2:45	T Th	PB 2410	Thiel
330-3	Editorial Writing	001	1:30-2:45	T Th	CB 1015	Hasse
391-3	Feature Writing	001	10:30-11:45	T Th	PB 0302	Hasse
MANAGEMENT OPERATING SYSTEMS (MOS)						
280-4	Introduction to Electronic Data Processing [Non-business students only]	e001	8:30-10:20	T Th	CB 0194	
281-4	Principles of Computer Programming [Consent of instructor]	001	11:30	MTWTh	CB 0186	Eirich

300-4	Management Operating Systems I [Acct 201]	001 8:30-10:20	M W	IB 2403	Ench
	Consent LIFT for Section 002.	002 8:30-10:20	M W	PB 3305	Hoek
		12:30-2:20	M	PB 3305	
		8:30-10:20	M W	CB 0186	Miller
381-4	Management Operating Systems II [281]	001 3:30-5:20	T Th	CB 0186	Wheelhouse
		6:30-8:20	M W	CB 0186	Wheelhouse
		12:30-2:20	M W	CB 1015	Wheelhouse
480-4	Management Operating Systems IV [Prod 460, Mktg 472]	001 12:30-2:20	M W	CB 0186	Werner
583-4	Advanced Management Systems	001 8:30-12:20	S	CB 0186	Bitsas
370-4	Consumer Behavior [GSB 103a,b, GSB 201 c, Econ 201]	001 10:30-12:20	M W	PB 3313	De Bord
		12:30-2:20	T Th	PB 3303	Bosse
		8:30-10:20	M W	PB 3302	Bosse
371-4	Principles of Marketing Management [QM 211]	001 8:30-10:20	M W	PB 3315	Gwin
		8:30-10:20	T Th	PB 1412	Gwin
		6:30-8:20	M W	PB 2412	Gwin
452-4	Physical Distribution Management [470, QM 310]	001 12:30-2:20	T Th	PB 3302	De Bord
470-4	Marketing Research [371, QM 211]	e001 6:30-8:20	T Th	PB 3302	De Bord
473-4	Advanced Marketing Management [Senior standing]	001 10:30-12:20	T Th	PB 3303	Bosse
570-4	Marketing Concepts [MBA students only]	e001 6:30-10:20	W	PB 3313	
MATHEMATICS (MATH)					
101-4	Fundamental Mathematics	001 8:30	MTWThF	SL 1224	
		002 12:30	MTWThF	SL 1224	
		003 2:30	MTWThF	SL 1224	
		004 3:30	MTWThF	SL 1224	
		201 9:30	MTWThF	SCI 002	
		+401 10:30	MTWThF	ESL 112	
150a-4	Elementary Calculus and Analytic Geometry [GSD 114c]	001 8:30	MWThF	SL 1225	
		002 10:30	MWThF	SL 1224	



150b-4	Elementary Calculus and Analytic Geometry [150a]	003 11:30 004 1:30	MWThF MWThF	SL 3225 SL 1224	
225-4	Programming for Digital Computers [GSD 114a]	001 8:30 e002 6:30-8:20	MWThF M W	SL 3225 SL 1224	
		001 2:30 002 3:30	M W M W	PB 0304 CB 0186	
		002 2:30 003 2:30	M W T Th	PB 0304 CB 0186	
		003 2:30 004 1:30	M W T Th	PB 0304 CB 0186	
		004 2:30 e005 10:30	M W T Th	PB 0304 CB 0186	
			T Th	CB 0186	
252a-4	Calculus and Analytic Geometry [150b]	001 9:30 002 11:30 e003 6:30-8:20	MWThF MWThF M W	SL 0226 SL 1225 SL 1225	
252b-4	Calculus and Analytic Geometry [252a]	001 9:30 002 1:30	MWThF MWThF	SL 1224 SL 1210	
305b-4	Applied Mathematics for the Physical Sciences [305a]	001 11:30	MWThF	SL 1224	Pendergrass
310-4	The Teaching of Elementary Mathematics [GSD 112b]	001 2:30 e002 4:30-6:20	MTWTh M W	PB 0302 SL 1224	
351-4	Multivariable Calculus [252b]	001 9:30	MWThF	PB 0302	
395-2 to 10	Readings in Mathematics [By permit only]	001 Arranged			
415-4	Non-Euclidean Geometry [252a]	e001 4:30-6:20	T Th	SL 1224	Oursler
420b-3	Fundamental Concepts of Algebra [420a]	e001 6:30-7:45	M W	SL 1210	Bennewitz
421b-3	Linear Algebra [421a]	e001 5:00-6:15	T Th	SL 1210	G. Stephen
425-3	Theory of Numbers [320a]	001 11:30	M W F	PB 0302	Lindstrum
445-4	Fundamental Concepts of Calculus [Consent of instructor]	e001 6:30-8:20	T Th	SL 1210	Sturley

446b-3	Structure of Mathematics [Experience in teaching or consent of instructor]	e001	6:30-7:45	1 Th	PB 0302	Holden
452c-3	Advanced Calculus [452b]	001	1:30	M W F	PB 0302	Hatterner
455c-3	Advanced Mathematics for the Physical Sciences [455b]	e001	6:30-7:45	T Th	SL 1224	Garder
472c-3	Computer Science [472b]	e001	8:30-9:45	T Th	CB 0186	Davierwalla
475a-3	Numerical Analysis [305a or 252b and consent of instructor]	001	10:30	M W F	CB 0186	Garder
483b-3	Introduction to Mathematical Statistics [483a]	e001	6:30-7:45	T Th	SL 1225	Clemans
483c-3	Introduction to Mathematical Statistics [483b]	001	12:30	M W F	SL 1225	Sturley
501c-3	Real Variables [501b]	e001	8:30-9:45	M W	SL 1225	Bennewitz
520c-3	Modern Algebra [520b]	e001	4:30-5:45	M W	SL 1225	Lindstrum
530-3	Point Set Topology [530a]	e001	4:30-5:45	T Th	SL 1225	Poynor
550d-1 to 10	Seminar [By permit only]	001	Arranged			
551c-3	Functional Analysis [551b]	e001	6:30-7:45	M W	PB 0302	Kessler
595-1 to 10	Special Project [By permit only]	001	Arranged			
599-1 to 9	Thesis [By permit only]	001	Arranged			
<b>MUSIC (MUS)</b>						
001a-1	Symphonic Band [By permit only]	001	12:30-2:20	M W F	CB 1029	Fjerstad
001b-1	University Band	001	12:30-2:20	T Th	CB 1029	Mellott
001c-1	Stage Band [By permit only]	001	10:30	T Th	CB 1029	Mellott
001d-0	Instrumental Laboratory	001	10:30	T Th	CB 0158	Perry
002c-1	Male Chorus	001	2:30	M W F	CB 0158	Van Camp

002d-1	Women's Glee Club	001	2:30	M W F	CB 1029	Cook
002e-1	Southern Illinois University Community Choral Society	e001	7:30-9:20	T	PB 1402	Van Camp
002f-1	Madrigal Singers [By permit only]	001	11:30	T Th	CB 0158	Van Camp
002g-1	Concert Chorale [By permit only]	001	11:30	M W F	CB 1029	Van Camp
003-1	University Symphony Orchestra [By permit only]	e001	8:00-10:00	T	CB 1029	Kendall
010b-1	Class Woodwinds	001	2:30	T Th	CB 1029	Oberlag
010d-1	Class Percussion	001	10:30	M W	CB 1029	Fjerstad
010e-1	Class Piano	001	8:30	M W F	PB 3406	Henderson
		002	9:30	M W F	PB 3406	Henderson
		003	9:30	T Th	PB 3406	Henderson
010f-1	Class Voice [By permit only]	001	2:30	M W	CB 0194	Joseph
105c-4	Theory of Music	001	8:30	MTWThF	CB 0194	Perry
		002	8:30	MTWThF	CB 0186	Pival
106c-5	Technics and Literature of Music Practice	001	8:30	MTWThF	PB 3404	Warren
140a-u 2 or 4	Private Applied Music	001	Arranged			

a.	Violin	h.	Bassoon	o.	Tuba
b.	Viola	i.	Saxophone	p.	Baritone
c.	Cello	j.	Percussion	q.	Voice
d.	String Bass	k.	Piano*	r.	Organ
e.	Flute	l.	French Horn	s.	Harpsichord
f.	Oboe	m.	Trumpet	t.	Harp
g.	Clarinet	n.	Trombone	u.	Guitar

\*Piano students must attend an accompanying class one hour each week, time to be arranged. Each student enrolled in private applied music for credit is required to:

- participate in a major ensemble.
- attend Convocation (Recital Class), unless excused by the applied instructor and the Chairman of the Music Faculty.

c. each student must also attend a studio lesson each Tuesday or Thursday at 9:30 A.M.

Convocation  
Second and fourth Fridays of each month.

	10:30	F	Arranged	Premezzi
200-3	001 1:30	M W F	PB 3404	Kresteff
205c-3	001 9:30 002 9:30	M W F M W F	CB 0186 PB 3404	Oberlag Warren
240a-u 2 or 4	001 Arranged			
301c-3	001 2:30	M W F	PB 3404	Tulloss
307-4	e001 5:00-8:00	Th	PB 3404	Tulloss
312b-3	001 1:30-4:15	T	CB 0158	Lewis
340a-u 2 or 4	001 Arranged			
355a-1	001 11:30	T Th	CB 1029	Fjerstad
355b-1	001 3:30 002 11:30 003 Arranged	M W T Th	CB 0158 CB 0194	Mellott Oberlag Oberlag
355c-1	001 11:30	T Th	Arranged	Pival
357c-3	001 3:30	M W F	PB 3404	Kresteff
411a-3	001 10:30	M W	PB 3406	Henderson
414-2	001 3:30-5:20	Th	CB 1029	Warren
420-1	e001 5:30-7:20	Th	Arranged	Brauer
440a-u 2 or 4	001 Arranged			
461a-3	001 Arranged			Slenczynska

Teaching Techniques and Materials for the  
Beginning and Intermediate Levels [By permit only]



461b-3	Teaching Techniques and Materials for the Advanced Student [By permit only]	001	Arranged		
481-2 to 6	Readings in Music Theory [By permit only]	001	Arranged		
482-2 to 6	Readings in Music History and Literature [By permit only]	001	Arranged		
483-2 to 6	Readings in Music Education [By permit only]	001	Arranged		
499-1 to 3	Independent Study [By permit only]	001	Arranged		
502a-3	History and Analysis of Music Style	e001	5:30-8:20	W	PB 3406
518-3	Pedagogy of Music Literature [By permit only]	e001	5:30-8:20	Th	PB 3406 Kresteff
519c-3	Vocal Pedagogy and Literature [By permit only]	e001	4:30	M W F	CB 0158 Moore
540a-u 2 or 4	Private Applied Music (See requirements stated in 140a-u)	001	Arranged		
550b-4	Organization and Administration of the Music Education Program [By permit only]	e001	5:30-8:20	M	PB 3404 Tulloss, Tarwater
556-3	Advanced Conducting [By permit only]	e001	5:30-8:00	T	CB 0158 Kendall
566-1	Instrumental Ensemble [By permit only]	001	Arranged		
567-1	Vocal Ensemble [By permit only]	001	Arranged		
599-3 to 9	Thesis [By permit only]	001	Arranged		
NURSING (NURS)					
280b-4	Nursing and Community Health	001	2:30-4:20	T Th	PB 3302
301-8	Nursing I	001	8:00-11:50 8:30-10:20	TWTh MF	Hospital SL 1210
302-8	Nursing II	001	8:00-11:50 8:30-10:20	TWTh MF	Hospital LB 0051
363a-8	Nursing III	001	1:30-3:20	M W	PB 1414

Course Number	Course Title	Prerequisites	Days	Time	Room	Instructor
375-8	Nursing V		M T	8:00-12:20	LB 0005	
			M W	1:30-3:20	PB 1414	
			Th	8:30-11:20	LB 0005	
			M T	8:00-12:20	Hospital	
			M T	8:30-12:20	Agency	
			F	1:00-4:20	Agency	
382-10	Nursing VI		W Th	7:30-3:30	Hospital	
			F	8:00-11:50	PB 3315	
384-2	Senior Seminar		M	9:30-11:20	PB 0410	
			T	9:30-11:20	SL 2231	
385-1 to 4	Independent Study [By permit only, consent of instructor]			Arranged		
<b>PERSONNEL (PERS)</b>						
450-4	Personnel Administration [GBA 340]		M W	10:30-12:20	PB 3303	Meador
451-4	Labor Relations Law and Collective Bargaining [GBA 340]		T Th	6:30-8:20	PB 0403	
452-4	Advanced Problems in Personnel Administration [450]		M W	8:30-10:20	PB 3303	Jain
453-4	Advanced Problems in Industrial Relations [451]		T Th	8:30-10:20	PB 3404	
<b>PHILOSOPHY (PHIL)</b>						
200-4	Types of Philosophy: An Introduction		MT ThF	10:30	PB 3316	Barker
302-4	World Religions [Sophomore standing]		MT ThF	2:30	PB 0309	Linden
360-4	Philosophy of Art [Sophomore standing]		MT ThF	11:30	PB 0413	Linden
385e-4	History of Western Philosophy: 20th Century [Sophomore standing]		MT ThF	10:30	PB 0406	Seligman
484c-4	History of Western Political Theory (Same as Govt 484c) [Junior standing or consent of instructor]		MT ThF	8:30	PB 0309	Runkle

490-4	Special Problems: Philosophy, Theology, and the Death of God [By permit only]	001	12:30-2:20	M W	PB 0411	Corr
495-2 to 12	Independent Readings [By permit only]	001	Arranged			
<b>PHYSICAL EDUCATION (P E)</b>						
303-5	Kinesiology	001	10:30	MTWThF	PB 0413	Archangel
305-3	Physical Education for the Atypical Student	001	9:30	M W F	PB 2411	Showers
348-3	Camp and Community Leadership Additional ten hours to be arranged.	001	11:30	T Th	SL 2224	Bobka
350-4	Methods and Materials for Teaching Physical Education Activities in the Elementary School Additional ten hours to be arranged for Section 003.	001 002 e003	8:30-10:20 1:30-3:20 5:30-8:20	T Th T Th M	PB 2414 LB 0051 CB 1024	Moehn Luedke Moehn
352-2	History and Physical Education	001	11:30	M W	PB 0411	Archangel
370-4	Tests and Measurements in Physical Education	e001	6:30-9:50	W	PB 2409	Showers
382-4	Methods and Materials for Teaching Physical Education in the Secondary School [Consent of instructor]	001	2:30-4:20	M W	PB 0409	Archangel
383-2	Outdoor Group Games Additional eight hours to be arranged.	001	10:30-12:20	T	PB 2413	Moehn
387-2	Developmental Skills Additional eight hours to be arranged.	001	10:30-12:20	Th	PB 2413	Luedke
398-4	Affiliation in Physical Education [Consent of instructor]	001	Arranged			Moehn
475-4	Individual Research	001	Arranged			Herrold
476-4	Teaching Athletic Skills	001	8:30-10:20	T Th	PB 0412	Guelker, Lee
504-4	Problems in Physical Education	e001	6:30-9:50	Th	PB 2409	Showers
509-4	Supervision of Health and Physical Education	e001	5:30-8:20	M	PB 2406	Herrold

325-4	Readings in Physical Education	001	Arranged	Herrold
PHYSICS (PHYS)				
206c-5	College Physics [206b]	001	11:30 11:30-1:20 11:30-1:20	M W F T Th  Shaw
211c-4	University Physics [211a]	001	10:30 10:30 10:30 10:30-12:20 10:30 10:30 10:30 10:30 10:30 10:30	M W F T Th M W F T M W F T Th M W F T Th M W F T Th Boedeker Boedeker Boedeker Scroggins Boedeker Agarwal Boedeker Hakeem
212c-1	University Physics Laboratory [Concurrent enrollment in 211c]	001 002 003 004 005 006 007	2:30-5:20 2:30-5:20 8:30-11:20 2:30-5:20 2:30-5:20 8:30-10:20 12:30-1:20 8:30-10:20 12:30-1:20	T W Th Th M T T W W Scroggins Zurheide Zurheide Chander Zurheide Zurheide
305b-4	Introduction to Electromagnetic Field Theory [305a or Math 305a or concurrent enrollment]	001	11:30	MTWF SL 0226 Walford
310-4	Physical Optics [211b]	e001	6:30-8:20	M W PB 0303
311-1	Optics Laboratory [310 or concurrent enrollment]	e001	6:30-9:20	F SL 0212
415b-4	Modern Physics [415a]	001	10:30	MT ThF SL 0226 McAneny
445a-4	X-Ray Crystallography	e001	6:30-8:20	T Th SL 2231 Walford
510c-3	Classical Mechanics	001	3:45-5:00	M W SL 0226 Boedeker
530b-3	Electromagnetic Theory	e001	6:30-7:45	M W PB 0406 Hakeem
580-3	Selected Topics in Physics [305a or Math 305]	e001	8:30-10:00	T Th SL 0226



PRODUCTION (PROD)

460-4	Production Management [GBA 340]	e001	6:30-8:20	T Th	PB 1307	Ashford
463-4	Advanced Production Management [460]	e001	4:30-6:20	MW	PB 3303	Morrissey

PSYCHOLOGY (PSYC)

211a-4	Principles and Methods of Psychology [GSB 201 c]	001	9:30 10:30-12:20	T Th M	PB 0304 SL 2212	McLaughlin
		002	9:30 10:30-12:20	T Th T	PB 0304 SL 2212	McLaughlin
		003	9:30 10:30-12:20	T Th W	PB 0304 SL 2212	McLaughlin
		004	9:30 10:30-12:20	T Th F	PB 0304 SL 2212	McLaughlin
211b-4	Principles and Methods of Psychology [211a]	001	12:30-2:20	T Th	PB 2306	Starr
301-4	Child Psychology [GSB 201 c]	001 e002	2:30-4:20 6:30-8:20	T Th MW	PB 0304 LB 0042	Skinner Kuenzli
303-4	Adolescent Psychology [GSB 201 c]	001	2:30-4:20	MW	PB 2405	Kuenzli
305-4	Introduction to Personality Dynamics [GSB 201 c]	001 e002	9:30-11:20 6:30-8:20	T Th T Th	PB 2306 PB 2306	Behring
307-4	Social Psychology [GSB 201 c]	e001	6:30-8:20	T Th	PB 1414	Engbretson
311-4	Experimental Psychology: Learning [211a,b]	001 e002	8:30-10:20 6:30-8:20	MW T Th	SL 2212 SL 2212	Ferguson
313-4	Experimental Psychology: Motivation [311]	001	1:30-3:20	T Th	SL 2212	Ferguson
320-4	Industrial Psychology [GSB 201 c]	e001	6:30-8:20	T Th	PB 0408	Daugherty
404-4	Theories of Perception [312]	001	3:30-5:20	T Th	PB 0302	Kuenzli
409-4	History and Systems [311]	001	1:30-3:20	W F	PB 2409 PB 0303	McMahon
420-4	Experimental Analysis of Behavior [GSB 201 c, By permit only]	e001	5:30-7:20	MW	PB 0309	McLaughlin

431-4	Psychopathology [305] Meets first four Fridays only.	e001	5:30-8:20	M F	PB 0307	
432-4	Mental Hygiene [305] Meets first four Fridays only.	e001	5:30-8:20	W F	PB 2306	Skinner
465-4	Group Dynamics and Individual Behavior [307]	001	9:30-11:20	M W	PB 0411	Walsh
490-1 to 4	Independent Projects [Concentration in psychology]	001	Arranged			
501 c-4	Proseminar in General Psychology [501b]	e001	5:30-7:20	T Th	LB 0051	McCall
522-4	Research Design and Inference III [521]	e001	7:30-9:20	T Th	LB 0051	Starr
531-4	Advanced Psychopathology [431]	e001	5:30-8:20	M	PB 3317	Taliana
541a-4	Psychodiagnostics I [211b, 421, consent of chairman]	e001	5:30-8:20	W	SL 2212	
543a-4	Psychodiagnostics II [530 or 531, consent of instructor]	e001	5:30-8:20	W	PB 0410	Taliana
564-4	Communication and Group Behavior [461 or 465]	e001	5:30-8:20	M	PB 2415	Engbretson
571-4	Industrial Motivation and Morale [320]	e001	5:30-8:20	W	PB 2415	Daugherty
590-1 to 4	Readings in Psychology [Consent of chairman]	001	Arranged			
591-1 to 4	Research in Psychology [Consent of chairman]	001	Arranged			
593-2 to 4	Practicum in Psychology [Consent of instructor and chairman]	001	Arranged			Engbretson
598-2	Ethical and Professional Problems [Consent of instructor]	e001	8:30-10:20	M	PB 0303	
599-1 to 4	Thesis [Consent of chairman]	001	Arranged			
QUANTITATIVE METHODS (QM)						
210-4	Probability in Decision-Making [GSD 114d]	001	10:30-12:20	T Th	PB 3315	Ingwersen

211-4	Statistical Analysis for Business Decisions [210]	e002 003	6:30-8:20 12:30-2:20	M W M W	PB 3315 PB 3302	Ingwersen Ingwersen
310-4	Operations Research for Managers [211]	001 e002 003	12:30-2:20 6:30-8:20 2:30-4:20	M W M W T Th	PB 3315 PB 3316 PB 3303	Davenport Davenport
513-4	Deterministic Models in Decision-Making [510,511]	001 002 e003 e001	8:30-10:20 12:30-2:20 6:30-8:20 6:30-10:20	M W M W T Th T	PB 3313 PB 2411 PB 2413 PB 3303	Rogier Rogier Rogier Krone
SCIENCE AND TECHNOLOGY (SC & T)						
415-1	Instructional Innovation for the Physical Sciences Course meets on alternate Saturdays.	001	9:00-12:00	S	SL 0226	Zurheide
SOCIAL WELFARE (SOC W)						
383-4	Introduction to Interviewing	001	1:30-3:20	M W	PB 3313	Teer
482-4	Social Work in Selected Agencies	001	Arranged			Teer
SOCIOLOGY (SOC)						
308-3	Statistics for Social Science	001	3:30-4:45	M W	PB 3302	Altes
312-4	Sociological Research	001 e002	2:30 6:30-8:20	TWThF T Th	PB 0314 LB 0042	Grubb Franklin
320-4	Race and Minority Group Relations	e001	5:30-7:20	T Th	PB 0304	Hammond
321-4	Socialization of the Individual	001	2:30-4:20	T Th	PB 1307	Henslin
405-4	Current Sociology	001	1:30-3:20	T Th	PB 3313	Campisi
427-4	Personality and Social Adjustment	001	2:30-4:20	M W	PB 2304	Henslin
435-4	Social Stratification	001	2:30-4:20	T Th	PB 2304	Campbell
451-4	Social Thought II: The Sociological Movement	e001	7:30-9:20	M W	PB 0309	Blain

412-4	Treatment and Prevention of Crime	001	11:30-1:20	T Th	LB 0042	Humphreys
484-4	Survey Course in Marriage Counseling	e001	6:30-10:20	M	PB 2409	Taylor
501-4	Survey of Sociological Theory	001	1:30-3:20	T Th	PB 3404	Blain
534-4	Seminar in Intergroup Relations	e001	4:30-6:20	T Th	PB 1306	Humphreys
538-4	Seminar in Industrial Sociology	e001	7:30-9:20	T Th	PB 0304	Campbell
SPECIAL EDUCATION (SP ED)						
353-4 to 16	Special Education Student Teaching [By permit only]	001	Arranged			
410g-4	Problems and Characteristics of the Learning Disabled Child [414]	001	8:30-12:20	S	PB 2304	Reinking
414-4	The Exceptional Child Meets first four Fridays only.	e001	5:30-8:20	W F	PB 3404	Zenk
420a-4	Methods and Materials in the Education of the Emotionally Disturbed Meets first four Fridays only.	e001	5:30-8:20	T F	PB 2406	Ferzacca
420b-4	Methods and Materials in the Education of the Educable Mentally Handicapped Meets first four Fridays only.	e001	5:30-8:20	M F	CB 0194	
420c-4	Methods and Materials in the Education of the Gifted Meets first four Fridays only.	e001	5:30-8:20	T F	PB 3316	Shaffer
428-4	Speech Correction for the Classroom Teacher (Same as SP & A 428-4)	001	9:30	MWThF	CB 1015	White
430-4	Behavior Modification in Special Education [By permit only] Meets first four Fridays only.	e001	5:30-8:20	M F	Arranged	Johnson
496-1 to 8	Readings and Independent Study in Special Education [By permit only]	001	Arranged			Shaffer
501-4	Special Research Problem [By permit only]	001	Arranged			



517-4	The Atypical Child and Social Agencies [Advanced standing]	e001	5:30-8:20	M	SL 0226	
577-4	Practicum in Special Education [By permit only]	001	Arranged			Coose
580a-4	Seminar: Education of Exceptional Children [Advanced standing]	e001	5:30-8:20	Th	PB 2403	Tucker
590a-4	Seminar: Mental Retardation [Advanced Standing]	e001	5:30-8:20	Th	CB 0194	
SPEECH (SPCH)						
104-4	Training the Speaking Voice	001	8:30	MWThF	CB 2012	O'Leary
224-4	Communicative Reading	001	9:30	MWThF	PB 1306	Hawkins
303-4	Business and Professional Speaking	e001	6:30-8:20	T Th	CB 1015	Robinson
407a-4	History of American Public Address	001	12:30-2:20	M W	CB 0194	Stope
449-4	General Semantics	e001	5:30-8:20	M	CB 2012	St. Onge
SPEECH PATHOLOGY AND AUDIOLOGY (S P & A)						
203-4	Introduction to Speech Science	001	9:30	M WThF	CB 2012	Carey
318-4	Voice and Cleft Palate Additional hours to be arranged.	e001	5:30-8:20	W	CB 2012	O'Leary
405c-4	Practicum in Speech and Hearing Therapy Additional hours to be arranged	001	8:30	W	CB 2012	Haines
412-4	Cerebral Palsy	001	1:30	M WThF	CB 2012	St. Onge
419-4	Communication Problems of the Deaf and Hard of Hearing	001	11:30	M WThF	CB 2012	Carey
428-4	Speech Correction for the Classroom Teacher (Same as Sp Ed 428-4)	001	9:30	M WThF	CB 1015	White
TELEVISION-RADIO (TV-R)						
100-4	Process and Effects of Mass Communications	001	11:30-1:20	T Th	LB 0044	Rider

2010-4	Broadcast Writing: Television [Typing skills]	001	11:30	M W F	CB 0194	Criminger
301-5	Television Production [201] Additional lab hours to be arranged.	001	9:30	M W F	CB 0194	Moormann
400-4	Seminar in Mass Communications: Mixed Media [Senior standing]	001	1:30-5:20	Th	CB 0194	Rider
THEATER (THEA)						
100-0,2, 4, or 6	First Year Work in Theater [Consent of director of theater]	001	Arranged		CB 2015	
200-0,2, 4, or 6	Second Year Work in Theater [Consent of director of theater]	001	Arranged		CB 2015	
300-0,2, 4, or 6	Third Year Work in Theater [Consent of director of theater]	001	Arranged		CB 2015	
400-0,2, 4, or 6	Fourth Year Work in Theater [Consent of director of theater]	001	Arranged		CB 2015	
Students enrolling in 100, 200, 300, or 400 must be advised by the Director of University Theater, Dr. Kluth, CB 1038, before their appointment with General Studies Advisement and before registering. Students will be assigned the following hours according to the amount of credit taken:						
Dance/Stage Movement Studio			9:30-10:20	MWThF	CB 2015	
			10:30-11:20	MWThF	CB 2015	
			11:30-12:20	MWThF	CB 2015	
Business Practices Studio			1:30-2:20	T Th	CB 2015	
Design/Technical Theater Studio			2:30-4:20	T Th	CB 2015	
Acting/Directing Studio			2:30-5:20	M W	CB 2015	
Costuming/Makeup Studio			4:30-5:20	T Th		
			2:30-4:20	F	CB 2019	
VOCATIONAL-TECHNICAL INSTITUTE (VTI)						
CCS 105-3	Language Arts Three hours laboratory to be arranged.	e001	4:30-6:20	W	PB 0413	

TECHNICAL AND ADULT EDUCATION (T & AE)

English Review

e001	6:30-8:20	T	SL 0226	ESL 122	Rockwell
e002	6:30-8:20	Th	SL 0226		
e003	6:30-8:20	W	PB 0307		
e004	8:30-10:20	W	PB 0307		

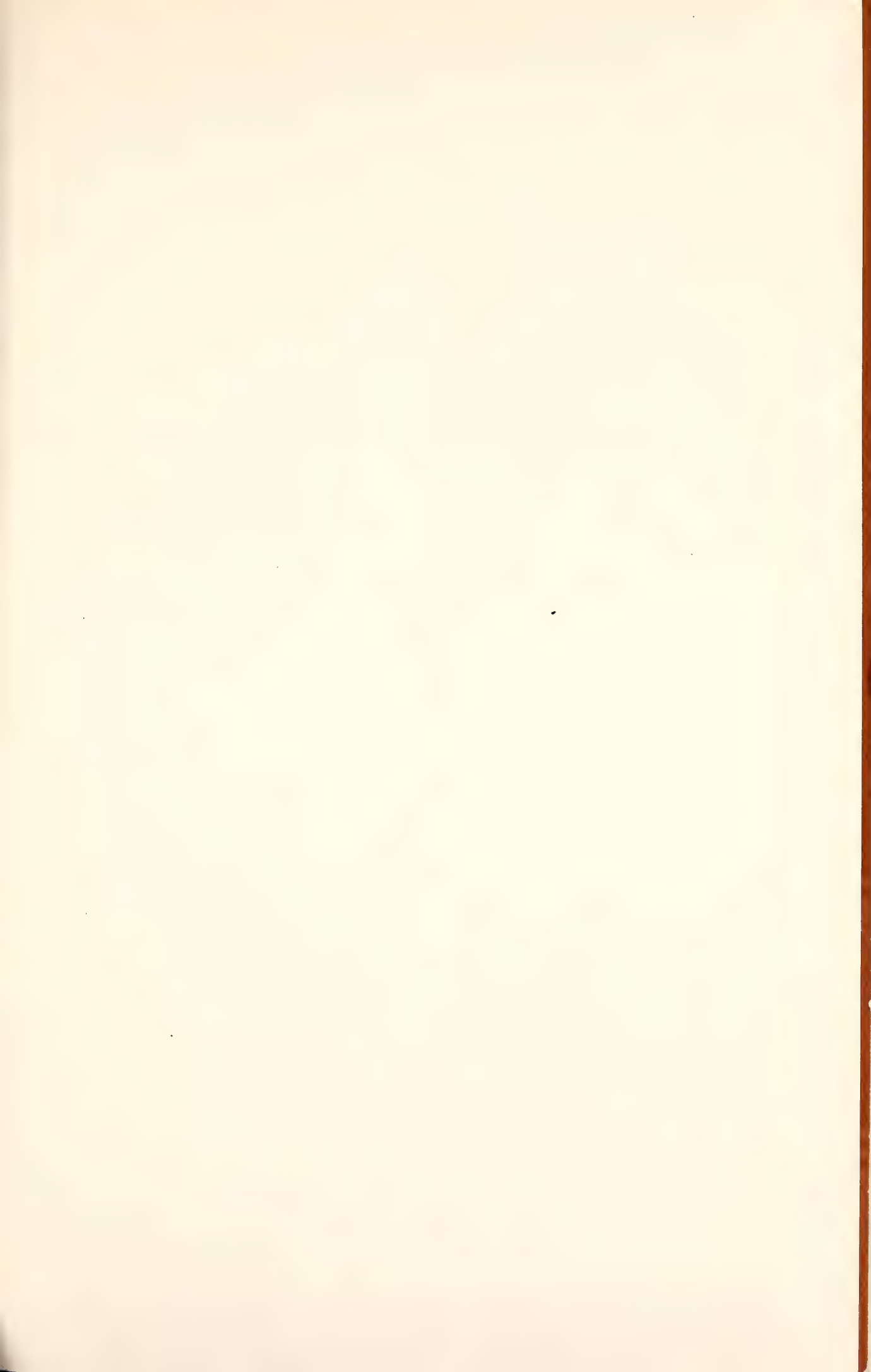
Reading Improvement

e001	4:30-6:20	T	SL 0226	ESL 122	Rockwell
e002	4:30-6:20	Th	SL 0226		
e003	6:30-8:20	W	SL 0226		
e004	8:30-10:20	W	SL 0226		











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# Southern Illinois University *Bulletin*

*Schedule of Classes, Summer Quarter, 1969*  
*Carbondale Campus*





## **This Bulletin**

contains the schedule of classes to be offered by the Carbondale Campus for the summer quarter, 1969, at Carbondale, Southern Acres, and Little Grassy Lake. It also provides information relative to admission, advisement, registration, and fees.

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# Schedule of Classes

*Summer, 1969*

*Carbondale Campus*



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# Registration Calendar

## Summer, 1969

### **April 9–June 3.**

Advance registration period for all undergraduate students. New students should refer to the Advisement and Registration procedure on page 1 for further procedural information. *All continuing undergraduate students are expected to be registered by June 3.*

### **April 14–June 27.**

Registration period for graduate students.

### **June 4.**

Undergraduate students will have their advance registration cancelled if fees are not paid at the Bursar's Office by 4:00 P.M. on this date unless they have received approval for deferred payment.

### **June 17.**

Last day of regular registration period for undergraduate students. Only new and re-entering students will be advised and registered. *All undergraduate students are expected to have completed registration by this date, except those registering for short courses that begin after June 17. They may register on the first day of the class without a late fee payment.* Any other exceptions will involve late registration fee charges. Workshops, short courses, and night classes (5:45 P.M. or later) begin.

### **June 18.**

Program change processing only. Day classes begin.

### **June 19.**

Late registration period for undergraduate students. Late fee will be assessed. Program changes will be processed.

### **June 23.**

Registration for the summer quarter ends for both graduate and undergraduate students. This also includes the registration into new courses or the changing of sections through the program change process.

### **June 30.**

Deadline for payment of fees by students whose fees were deferred. Graduate student registration will be cancelled if fees are not paid by 4:00 P.M.

Last day officially to withdraw from school to be eligible for a refund of fees.

### **July 14.**

Last day for undergraduates to officially withdraw from a course without receiving a letter grade. Graduate students officially drop-

ping a course after this date need not be given an evaluative letter grade. Last day to change from credit to audit or vice versa for all students.

**August 15.**

Last day for making a program change or withdrawing from school except under exceptional circumstances.

## Calendar of Events

### July, 1969

- 12, Saturday.   \* Graduate Record Examination  
                  \* Admission Test for Graduate Study in Business  
                  \* Graduate English Examination
- 19, Saturday.   \* National Teacher Examination  
                  \* American College Test (National)
- 26, Saturday.   Deadline to file at Registrar's Office for August graduation (graduate and undergraduate)

### August

- 2, Saturday.   \* ETS Graduate Student Foreign Language Examination

\* Pre-registration is required. Applicant should contact the Testing Center for details at least four weeks before his test is scheduled.

# University Calendar

<i>SUMMER, 1969</i>	Quarter Begins	Tuesday, June 17 *
	Independence Day Holiday	Friday, July 4
	Final Examinations	Monday–Friday, August 25–29
	Commencement (Edwardsville)	Friday, August 29
	Commencement (Carbondale)	Saturday, August 30
<i>FALL, 1969</i>	New Student Week	Sunday–Tuesday, September 21–23
	Quarter Begins	Wednesday, September 24 *
	Faculty Meeting (Carbondale)	Saturday, October 4
	Homecoming (Carbondale)	Thursday– Saturday, October 23–25
	Homecoming (Edwardsville)	Thursday– Saturday, October 30–November 1
	Parents' Day	Saturday, November 15
	Thanksgiving Vacation	Tuesday, 10 P.M.– Monday, 8 A.M., November 25–December 1
	Final Examinations	Monday–Saturday, December 15–20
	Quarter Begins	Monday, January 5 *
	Final Examinations	Monday–Saturday, March 16–21
<i>SPRING, 1970</i>	Quarter Begins	Monday, March 30 *
	Memorial Day Holiday	Friday, May 29
	Final Examinations	Monday–Saturday, June 8–13
	Commencement (Carbondale)	Friday, June 12
	Commencement (Edwardsville)	Saturday, June 13
<i>SUMMER, 1970</i>	Quarter Begins	Monday, June 22 *
	Independence Day Holiday	Friday, July 3
	Final Examinations	Monday–Friday, August 31–September 4
	Commencement (Edwardsville)	Friday, September 4
	Commencement (Carbondale)	Saturday, September 5

\* Classes begin with the evening classes after 5:30 P.M. on the Carbondale campus and with the evening classes after 4:30 P.M. on the Edwardsville campus.

# 1 / General Information

This bulletin contains the schedule of classes for the summer quarter, 1969, for the Carbondale Campus. It also provides information relative to advisement and registration, fees, and allied information for the Carbondale Campus.

## **Admission**

Inquiries concerning undergraduate admission to the Carbondale Campus should be directed to the Admissions Office; those on the graduate level to the Graduate School. Undergraduate admission applications should be completed at least thirty days in advance of the desired entrance date.

## **Registration and Advisement**

The Carbondale Campus uses an academic advisement system whereby each undergraduate academic unit has a chief academic adviser and a number of assistant advisers selected from the teaching faculty. Undergraduate students entering the University for the first time will receive selective dates from the admission process from which they are to select the preferred date on which they will come to the campus to be advised and to advance register. This includes both freshmen and transfer students. They are not to write for appointments nor are they to come to Carbondale expecting to register unless it is the date indicated for them to do so.

Graduate students will initiate advisement with their advisers, and will complete the registration process at the Graduate School, where all registration forms will be completed and retained. Graduate students will not be required to go through the Registration Center. The sectioning process is handled at a later time, and the student receives a fee statement by mail. Cancellation of graduate student registrations for non-payment of fees occurs at the end of the second week of the quarter. Graduate students may register during the advance registration period or during the first week of the quarter. No late fee will be assessed during this period. Graduate students who need to make program changes must follow the same procedure as undergraduate students in that these must be personally processed by the graduate students through the Registration Center.

After advisement the student may register for classes. See the registration calendar in this bulletin. Ordinarily registration offices



are open from 8:15 to 11:45 A.M. and 1:00 to 4:45 P.M., Monday through Friday, and from 8:30 to 11:45 A.M. on Saturday.

During the registration process the student goes through the Registration Center where the student assigns himself to specific sections of the courses he is to take.

Mere attendance does not constitute registration in a class, nor will attendance in a class for which a student is not registered be a basis for asking that a program change be approved permitting registration in that class.

### *New Students*

Students entering the University for the first time are permitted to advance register only after they have been admitted to the University as evidenced by their receiving the Certificate of Admission.

New undergraduate students, freshmen and transfer, will be expected to advance register on the same date that they come to the campus for advisement. Dates for students to do so will be selective ones in which the students are asked to come to the campus on specific dates as determined by the University. Students should not expect to be advised and registered on the same date they are admitted nor are they to come to the campus for advisement and registration without an appointment. Appointments for advisement and registration will be mailed from and are to be returned to the Registrar's Office.

New graduate students may register during the registration periods indicated on the registration calendars. Arrangements should be cleared with the Graduate School to do so to assure that the appropriate adviser will be available.

### *Re-Entering Students*

Students who have attended the University at some former time but not during the session immediately prior to the time they plan re-entry are expected to advance register during the periods outlined in the Registration Calendar. After completing readmission procedures (Admissions Office for undergraduate students and Graduate School for graduate students) advisement appointments should be made at the advisement offices of the academic units into which the students are entering and clearance of the registrations should be completed on that same day at the Registration Center.

### *Current Students, Carbondale Campus*

Students currently registered in the University will be continued in their present curricula unless a change of college or major is made. A change of college or major area of concentration is initiated with the student's adviser. Either change should be made at the time of advisement.

Undergraduate students currently registered in the University will schedule appointments with their adviser. Registrations should be processed through the Registration Center as soon after advisement as possible.

Graduate students in a degree program should make appointments with the departmental adviser for program advisement. Unclassified graduate students preparing for a degree program should contact the departmental adviser for pre-advisement. Unclassified graduate students in other categories may report directly to the Graduate School for registration procedure. Unclassified students who are planning to take qualifying courses must report those courses to the Graduate Admissions office *before* registering each quarter.

### *Current Students, Edwardsville Campus*

Undergraduate students attending the Edwardsville Campus who plan to attend the Carbondale Campus must initiate their registration process by presenting to the Admissions Office at Carbondale either an official transcript of their University record or a letter of good standing from the registrar at the Edwardsville Campus. The reason for reporting to the Admissions Office is to permit the necessary coding changes to be made so that pertinent information about their academic programs, etc., can be up-dated to reflect the change of campus. Graduate students report first to the Graduate School.

### **Registering for Only Night or Saturday Classes**

Students registering for only night and/or Saturday classes may advance register, during regular office hours, the same as other students. Registration offices are also open the first night of each quarter, and the first Saturday morning of each quarter for the convenience of these students.

### **Payment of Fees**

Undergraduate students receive their fee statements at the time of registration. During the advance registration period students are asked to delay paying their fees in person at the Bursar's Office until the day following registration. This is to permit necessary fee information to reach the Bursar by the time of fee payment. Students will find it easier simply to mail the fee statement along with the proper monetary amount to the Bursar's Office so as to arrive there by the deadline dates which are stated in the Registration Calendar located earlier in this Schedule. If students pay fees in person at the Bursar's Office they receive a Certificate of Registration at that time. When fees are paid by mail the Certificate will be mailed to the address given by the student on the back of his fee statement. Students will receive their printed schedule of classes within one week after the cancellation date. It is important that these forms be carried by the students at all times.

Undergraduate students registering at the start of a quarter must pay fees at the time of registration.

Graduate students receive their fee statements by mail and must clear their fees at the Bursar's Office by 4:00 P.M. on the last



day of the second week of the quarter. For the 1969 summer quarter this is June 30.

### *Fees for A Regular Quarter*

The University reserves the right to change fees and to have the change go into effect whenever the proper authorities so determine. Undergraduate students pay the following regular fees:

	Not more than 5 hrs.	More than 5, less than 11	11 or more
Tuition Fee—Illinois Resident . . . . .	\$14.00	\$28.00	\$42.00
Tuition Fee—Out of State Resident ..	(30.00)	(115.00)	(172.00)
Student Welfare and Recreation			
Building Trust Fund Fee . . . . .	5.00	10.00	15.00
Book Rental Fee . . . . .	3.00	6.00	8.00
Student Activity Fee . . . . .	3.50	7.00	10.50
University Center Fee . . . . .	5.00	5.00	5.00
Athletic Fund Fee . . . . .	3.00	6.50	10.00
<i>Total</i> —Illinois Resident . . . . .	\$33.50	\$62.50	\$90.50
<i>Total</i> —Out of State Resident . . . . .	(49.50)	(149.50)	(220.50)

Students who register for a course for “Audit” or for a non-credit course will be assessed fees according to the imputed hours of that course. “Imputed hours” is generally the number of hours the class meets per week.

Graduate students do not rent their textbooks and do not pay the book rental fee. They must purchase their books.

Students having special fee status, such as scholarship holders, faculty, and staff, will pay fees according to their particular status.

The activity fee is prorated according to the number of hours carried. Health Service benefits vary according to the amount paid. In certain instances graduate assistants, research assistants, graduate fellows, or students on fee code 27 may seek permission from the health service to pay the full activity fee even though they are only part time students. Written consent from the Health Service must be presented at the time of registration so that the student may be properly assessed.

### **Late Registration**

A late registration fee will be charged continuing undergraduate students who do not advance register. New and re-entry undergraduate students will be charged this late fee after the first day of the quarter. Graduate students will be charged a late fee after the first week of the quarter.

### **Auditing of Courses**

Students may register for courses in an “audit” status. They receive no letter grade and no credit for such courses. An auditor’s registration must be marked accordingly. They pay the same fees as though

they were registering for credit. They are expected to attend regularly and are to determine from the instructor the amount of work expected of them. If auditing students do not attend regularly, the instructor may determine that the students should not have the audited courses placed on their record cards maintained in the Registrar's Office. Students registering for a course for credit may change to an audit status or vice versa only for fully justified reasons and only during the first four weeks of a quarter. Such a change will require the student's academic dean's approval.

### **Program Changes**

Students are officially registered only for those courses appearing on their schedule of classes. Any change therefrom can be made only after fees are paid and must be made through an official program change, which includes the following steps:

1. Initiating the change.

Students report to their advisers for approval and Program Change form completion. Graduate students must also secure approval from the Graduate School. If the change involves only that of changing sections within the same course, this may be done at the Registration Center without the necessity of securing adviser approval.

2. Sectioning.

Students must take the program change form to the Registration Center after approval by the adviser. If the change involves a program change fee this must be paid at the Bursar's Office and then returned to the Registration Center for completion of the process.

Program changes which involve the adding of a new course to the schedule or the changing of sections must be done during the first week of a quarter.

### *Dropping a Course*

A program change must be made in order to drop a course. A student may not drop merely by stopping attendance. The last date for dropping a course by an undergraduate student without receiving a letter grade is the last day of the fourth week of a quarter. Graduate students may not necessarily receive a grade for dropping after the fourth week. (Refer to Registration Calendar.)

### *Changing Fee Status*

Students making program changes which result in their moving from one fee status to another will be assessed additional tuition and fees when appropriate. If the change is to reduce the academic load resulting in a lower tuition and fee status, students may apply for the appropriate tuition and fee refund provided the reduction in program is made officially by a program change during the same period at the start of a quarter in which students withdrawing from the



University are eligible for a refund. This is usually during the first ten days. For dates refer to the Registration Calendar.

### **Withdrawing from School**

A student who finds it necessary to withdraw from school while the quarter is in progress must report to the Student Affairs Office to initiate official withdrawal action. No withdrawal will be permitted during the last two weeks of a quarter except under exceptional conditions. A refunding of fees is permitted only if a withdrawal is officially completed within the first two weeks of a quarter and if the application for a refund is received in the Registrar's Office within two weeks following the last regular registration period. See the Registration Calendar in this bulletin for the specific dates concerning withdrawal and refunding of fees.

A student who advance registers, including paying of fees, and then finds that he cannot attend school must also officially withdraw from school. He may do this by asking the Student Affairs Division to initiate official withdrawal action for him. This must be done by the end of the first two weeks if he expects to get a refund.

### **Cancellation of Registration**

An advance registration including the payment of tuition and fees may be considered invalid if the student is declared to be ineligible to register due to scholastic reasons. The same situation may exist due to financial or disciplinary reasons if certified to the Registrar by the Dean of Students.

### **Personal Data Changes**

At the time of registration students are asked to review a Biographic Data Sketch containing personal data. Certain items, if in error, may be corrected at that time. Other items which may require some type of verifying evidence, are changed by reporting to the offices listed below.

1. Local Address Change. Housing Office.
2. Names Changes, Marital Status Changes, Date of Birth Changes. Records section of the Registrar's Office. Verification is required.
3. Selective Service Data Changes or Information. Enrollment, Fiscal Reports, Registrar's Office.
4. Legal Residence Changes (whether an Illinois or out-of-state resident). Must be requested by completion of the *Application to be Classified an Illinois Resident* form in the Registrar's Office. Before the change is made the student must have met the regulations governing residency status as established by the Board of Trustees.

## 2 / Summer Workshops and Institutes

### *Workshops*

#### **Agricultural Industries**

*Principles and Philosophy of Industrial, Vocational, and Technical Education* (Agricultural Industries 485-3, cross-listed with TIED 485) June 23-July 12, Monday through Friday, 8:30-10:20. The team-teaching approach is used to give an understanding of the nature and purposes of practical arts, vocational and technical education, their relationships and differences, and the place of each in preparing people for the world of work.

*Interrelated Vocational Cooperative Education* (Agricultural Industries 525-3, cross-listed with TIED 525) June 23-July 12, Monday through Friday, 7:30-8:30. The team-teaching approach is used. Interrelated cooperative programs as they are developed in America, and especially Illinois, are presented. Coordinator's duties and responsibilities along with the operation of interrelated vocational cooperative programs are featured.

*Advanced Agricultural Marketing* (Agricultural Industries 554-4) June 23-July 19, Monday through Friday, 2:30-4:20. Current complex problems in agricultural marketing and methods of developing solutions; cooperative activities.

*Seminar* (Agricultural Industries 581-3) June 23-July 19, Monday through Friday, 12:30-2:20. Arrangements have been made for H. W. Hannah to offer a course in agricultural law during this period.

*Agricultural Occupation Internship* (Agricultural Industries 512-6) Section 1: June 23-July 19, 9:00-4:00. Section 2: July 29-August 24, 9:00-4:00. Prepares coordinators to fulfill their responsibilities in selected areas of agricultural related occupations through (1) an internship in the area of specialization and (2) orientation to related technical information.

#### **Health Education**

*Driver Simulation* (Health Education 445s-4). A comprehensive course designed for in-service and pre-service teachers

and supervisors of driver and traffic safety education. Deals with simulation use and roles in driver and traffic safety education, methods of instruction, equipment familiarization, program development and objectives.

*Workshop in Health Education* (Health Education 461-4 or 462 or 463) July 14-August 8, 1:20-4:40. Familiarizes participants with a conceptual approach to health teaching; organizing concept is the utilization of health information, products, and services, with special attention to the health implications of psychoactive drugs, family planning, and world population.

*Practicum in Health Education Workshop* (Health Education 511-5) July 14-August 15. Insights into and practical experiences in conjunction with the conducting of a health education workshop. Offered only in conjunction with 461.

### **Home Economics**

*Designing Through Fitting* (Clothing and Textiles 432-4) June 16-August 8, Monday through Thursday, 11:30-1:20, and Friday, 11:30-12:20. Designed to aid leaders in the field with current problems. Discussion, reports, lectures, and other methods of analyzing and working on solutions to problems.

*The School Lunch Program* (Food and Nutrition 247-2) June 16-20, Monday through Friday, 9:00-4:00. Lecture, discussion, and demonstration of quantity food production menu planning, principles of nutrition, institutional equipment, record keeping, sanitation, principles of merchandising, and principles of administration as they apply to the school lunch personnel.

*Personal Problems in Family-Life Education* (Home and Family 407a-2) June 16-27, Monday through Friday, 9:30-11:20. Personality involvement, and interactions of students and teachers will be examined. Problems of objectivity, introspection, emotional maladjustment, and counseling will be considered. The workshop should be valuable to those concerned with individual reactions to family-life education.

*Equipment's Impact on Work in the Home* (Home and Family 407b-2) July 14-25, Monday through Friday, 7:30-9:20. Recent developments in household equipment and products, including electronic ranges, self-cleaning ovens, small electric appliances, non-stick finishes, permanent press, enzyme products, and their impact on work in the home. Consideration of management aspects and evaluation of time and work-saving qualities in relation to cost, performance, and safety.

*Black American Child* (Home and Family 407c-2) June 16-27, Monday through Friday, 2:30-4:20. The major objective



of this workshop is embodied in its title, with emphasis in understanding the influences of the black child's social and cultural environment. The workshop seeks to develop insight into the black child as a person, as a member of the family, school, and community. Other specific topics dealing with the black child will include the following: characteristics of the disadvantaged child, special problems and needs, influences of poverty on child relationships, economic influences upon children's learning and motivation, and other areas of group interest. Lectures, films, guest speakers, and readings will constitute the major segments of the program.

*Wage Earning in the High School* (Home Economics Education 507a-4) June 16-July 11, Monday through Friday, 7:30-9:20. Planning for wage earning programs at the secondary level in home economics related occupations and developing of curricular materials.

*Post High School Vocational-Technical Programs* (Home Economics Education 507b-4) June 16-July 11, Monday through Friday, 9:30-11:20. An exploration of post high school wage earning programs for the junior college and vocational-technical institutes. Philosophy, curriculum, and methods for courses in home economics related occupations at this level.

*Concepts and Generalizations* (Home Economics Education 507c-4) July 14-August 8, Monday through Friday, 2:30-4:20. Development of a better understanding of concepts and generalizations and their use in teaching. Preparation of curriculum materials for use in varied situations.

*Teaching Home Economics in Inner City* (Home Economics Education 507e-4) June 16-July 11, Monday through Friday, 7:30-9:20. Focuses on the family needs, problems, and ways of working with low-income, disadvantaged individuals and families. Some "on-the-site" experience will be provided to help home economics teachers to become more knowledgeable and understanding in their work with these groups.

### Short Course

*Supervision for Cooperating Teachers* (Home Economics Education 507d) June 30-July 3, Monday through Friday, 2:30-4:20 plus 2 hours to be arranged. Home economics cooperating teachers of student teaching centers are invited to work with teacher education staff on problems, needs, and techniques which will strengthen the student teaching program.



## Music

*Summer Music Theater Repertoire Company* (Music 347 or 568 2-12) June 8-August 27. Directed by William Taylor.

*Electronic Synthesis of Music Workshop* (Music 531-3) June 9-21. Directed by Will Gay Bottje, with Hubert Howe as guest clinician.

*Opera Workshop* (Music 346 or 568 2-12) June 16-July 26. The workshop will be on summer location at Harmony Hills Ranch, Hot Springs, Arkansas, under the direction of Marjorie Lawrence.

*Contemporary Compositional Techniques* (Music 481-2, Sec. 2) June 23-July 5. Will Gay Bottje and Hubert Howe.

*Elementary Music Education Workshop* (Music 455-3) June 23-July 3. Directed by Charles Taylor with Lois Rogers, clinician.

*Workshop in Piano Tuning and Maintenance* (Music 420-3) June 23-July 3. Directed by John Wharton.

*American Music Since 1945* (Music 482-2, Sec. 2) July 7-19. Will Gay Bottje and Hubert Howe.

*Piano Workshop* (Music 454-3) July 21-26.

## Plant Industries

*Fertilizers and Soil Fertility* (Plant Industries 407a). The uses of fertilizer material; effects of various fertilizers on soils and crops; fertility maintenance and soil management. Offered to high school and junior college teachers, farm advisers, and others who wish to use their vacations to further their work toward advanced degrees.

## Psychology

*Advanced Psychopathology* (Psychology 531-4). Eight weeks. This is the Anna summer program course for our clinical graduate students.

*Advanced Seminar* (Psychology 595-4, Section 2). Eight weeks.

*Theory and Practice in the Preschool* (Psychology 459-4) eight weeks. This workshop is designed for those in nursery educa-

tion and related fields. It examines a variety of topics and provides lectures, demonstration, and practicum experience in the Child Study Cooperative Nursery.

### **Recreation and Outdoor Education**

*Outdoor Education: Methods and Techniques* (Recreation and Outdoor Education 301-4 or 510-4) June 16-June 27. This course is for teachers and youth leaders. Its purpose is to assist teachers in the use of the outdoors. Outdoor education is a method of education which utilizes the resources outside of the formal classroom. It is used to teach that which can be more effectively learned there. Outdoor education, as a means of curriculum or program enrichment, applies to most subject matter areas of the elementary and secondary schools and other educational agencies and to many courses at the college level. The course includes a weekend field trip to the Conservation Education Center, Land Between the Lakes, Kentucky. A student may also enroll in 490 Practicum and gain four quarter hours of credit at the end of the summer through field problem participation off campus.

*Conservation Education: Research and Field Studies* (Recreation and Outdoor Education 596-4 Section 2, Individual Research—Conservation Education; or Secondary Education 575F-4 Individual Research—Social Studies; or Secondary Education 575D-4 Individual Research—Science) August 11-22. This course is for teachers and other youth leaders. The goal is to implement conservation education programs in school and community parks and nature centers. The goal will be accomplished through lectures, discussions, films, field projects, and independent study. Conservation education is conceived as the process of helping human beings clarify their personal values concerning their environment and subsequently make decisions about the use of this environment. Enrollment will be limited to thirty teachers. A weekend trip to the Conservation Education Center, Land Between the Lakes, Kentucky, will be included.

### **Secondary Education**

*Workshop in Economics Education* (Secondary Education 490-4 or Economics 490-4 August 11-22, Monday through Friday, 8:30-11:20 and 1:30-3:20. The workshop has two central purposes: 1. Presentation of economic analysis as applied to contemporary problems. 2. A consideration of possible inclusion of economic concept in elementary and secondary school subject matter. For several years the workshop has emphasized a particular theme which seems to describe the more pressing contemporary problems, for example, "The U.S. Economy: Prospects and Problems."

The workshop is planned in cooperation with the Illinois Council on Economic Education and the Joint Council on Economic Educa-

tion. In the past two years there have been guest speakers from business, labor unions, and government.

### **Secretarial and Business Education**

*Vocational Business Education Workshop for Office Occupations and Distributive Education* (Secretarial and Business Education 505-1) August 11, 12. Registration begins at 8 A.M. on August 11. The general meetings will be held in Furr Auditorium. Students may preregister for this workshop at the same time they enroll for summer quarter.

This workshop presents specialists in office occupations and distributive education from the federal, state and local levels who will present current techniques relative to cooperative and in-school programs on the secondary school and junior college levels. Some of the sessions will provide sectional group meetings for discussion of pertinent problems relative to both types of programs in regard to organization, administration, and the project method of instruction.

*Business Education Workshop for Consumer Education* (Secretarial and Business Education 505-4) July 14-August 8. Registration begins at 11:30 on July 14, 1969. Students may also preregister for this workshop at the same time they enroll for the summer quarter. In order to develop a more informed and effective citizenship with personal economic competence, the 75th General Assembly passed and the Governor approved a bill requiring that "Pupils in the public schools, grades 8 through 12, shall be taught and be required to study courses which include instruction in consumer education, installment purchasing, budgeting, comparison of prices, and other economic information." This workshop is designed to train and qualify teachers to meet these requirements. Some sessions will have speakers from business and will also include field trips to study the problems firsthand.

### **Special Education**

*Workshop in Special Education—Mentally Retarded* (Special Education 518-4) Monday and Wednesday, 2:00-4:30. For teachers of TMH and EMH. Several new programs, devices, and techniques that appear to be suitable to the mentally retarded will be discussed. Attempt to relate learning theory to practical application for all levels of retarded will be main emphasis. Trends and issues in the education of the mentally retarded will be discussed. Prerequisite: At least one year of actual teaching with retarded and consent of instructor.

*Workshop in Special Education—Learning Disabilities* (Special Education 518-4) Presents a review of the works of Myklebust and Johnson, Kirk, Strauss and Lehtinen, Kephardt, Cruickshank, and Frostig. Emphasis will be placed on the Mykle-



bust approach to psychoneurological learning disabilities and Kirk's approach through use of the Illinois Test of Psycholinguistic Abilities.

Prerequisite: 411 or concurrent enrollment.

*Workshop in Special Education—Learning Disabilities* (Special Education 518-4) The workshop will offer various theories of learning, including Piaget, Brunner, Roach-Kephardt and Doman Delacato. This will be followed by an examination of tests used in the diagnosis of learning disabilities. Areas of testing will include (1) kinesio-perceptual, (2) auditory and visual perception, (3) psycholinguistic abilities, (4) intelligence tests.

The workshop will present a number of guest lecturers and will offer the students an opportunity to acquire practice in the administration of many important diagnostic tests including:

Kinesio-Perceptual—Holt-Joiner Kinesio-Perceptual Test; Purdue

Perceptual Motor Survey; Lincoln-Oseretsky Developmental Scale; Auditory and Visual Perception—Wepman Auditory Discrimination Test; Frostig Visual Perception Test;

Psycholinguistics—ITPA; Selected Reading Assessment Tests;

Intelligence Tests—WISC; PPVT.

## Theater

*Contemporary Dance Workshop* (Theater 444 or Physical Education for Women 444-2 to 8). An intensive course in dance technique and theory, composition, improvisation, and production. Attention is given to the advanced study of the problems of choreography and production in their presentation as theater. Public performance is required. A student must have the equivalent of one year in technique and theory in order to register for more than 2 quarter hours. Students will meet for 6 weeks, 5 times weekly, for four hours in the classroom plus laboratory and rehearsals.



# 3 / Schedule of Classes

## Listing of Courses

Courses which students are to take to meet the General Studies requirements are listed in the front part of the Schedule of Classes. These courses are listed by the area which they satisfy and within the area by course number and section number.

Departments in which courses are being offered are listed in alphabetical order. Courses within each department are listed in order by course number and section number.

## Course Numbers and Hours

The line containing this information shows the number of the course first, followed by the short title and number of hours of credit. Course numbers are three-digit numbers. In some cases the three digits may be followed by a letter which is also part of the course number.

In a variable-hour course the student decides the number of hours for which he is going to register in consultation with his adviser.

The course numbering system is as follows:

- 000-099 Course not properly in the following categories
- 100-199 For freshmen
- 200-299 For sophomores
- 300-399 For juniors and seniors
- 400-499 For seniors and graduate students
- 500-600 For graduate students only

## Prerequisite

The prerequisite column lists requirements which must be satisfied before a student registers for the course. These prerequisites may be listed in various ways. Usually they are other courses in the same department, indicated by a course number. A prerequisite in another department is indicated by the department's code letters and the number.

The listing of prerequisites provides ready information for students. An effort has been made to have the listing complete, but this is not guaranteed. For the official listing of course descriptions and prerequisites, consult the Undergraduate Catalog, Carbondale, or the Graduate School Catalog.

## Section Number, Time, and Days

The section number is indicated in the first column. The times given indicate the beginning and ending of each class period. Students registering for courses listed as "to be arranged" may obtain times and days from instructor indicated or, if no instructor is listed, from the department chairman offering the course.

The letter *T* preceding a section number indicates that the course has been tentatively scheduled and will be opened for registration only if staff is available.

## Building and Room Number

The following list of building abbreviations will help in the location of classrooms. Buildings are listed alphabetically according to the code used in the class schedule. Temporary buildings are indicated in the schedule by a four digit number.

If a building contains more than one classroom, then the number of the room follows the building's code name.

CODE:	BUILDING NAME	CODE:	BUILDING NAME
ABBOTT:	Abbott Hall (T.P.)	PARK:	Parkinson Building
AG:	Agriculture Building	PHY SC:	Physical Science Building
ALLYN:	Allyn Building	PIERCE:	Pierce Hall (T.P.)
ALTG:	Altgeld Hall	PULL:	Pulliam Hall (University School)
ARENA:	SIU Arena	PULL I:	Pulliam Hall (Industrial Education Wing)
BAILEY:	Bailey Hall (T.P.)	PULL P:	Pulliam Hall (Physical Education Wing)
BOAT:	Boat Dock	SHRY:	Shryock Auditorium
BROWN:	Brown Hall (T.P.)	STAD:	McAndrew Stadium
CL:	General Classroom Building	TECH A:	Technology Building A
COMM:	Communications Building	TECH B:	Technology Building B
FELTS:	Felts Hall (T.P.)	TECH D:	Technology Building D
GYM:	Gymnasium	TENNIS:	Tennis Courts
HDBALL:	Handball Courts	U CTR:	University Center
H EC:	Home Economics Building	WARREN:	Warren Hall (T.P.)
LAWSON:	Lawson Hall	WHAM:	Wham Education Building
LAKE:	Lake on the Campus	WHLR:	Wheeler Hall
LIB:	Morris Library		
LG:	Little Grassy Lake		
LS 1:	Life Science Building		
L-APS:	Physical Plant		
MAIN:	Old Main		
OBF:	Old Baptist Foundation		

## Temporary Buildings

CODE	LOCATION	FORMER CODE	CODE	LOCATION	FORMER CODE
0403	1009 S. Forest	T073	0429	1009 S. Elizabeth	T171
0412	907 S. Forest	T138	0431	1007 S. Elizabeth	T173
0415	807 S. Forest	T188	0432	1005 S. Elizabeth	T081

0436	908 S. Forest .....	T169	0823	309 W. Harwood ....	T020
0437	904 S. Forest .....	T283	0831	Farm Machine Shop ..	T029
0438	900 S. Forest .....	T177	0832	Journalism .....	T048
0442	903 S. Elizabeth .....	T310	0833	Journalism Annex ...	T026
0448	814 S. Forest .....	T207	0834	Printing & Photography .....	T027
0451	810 S. Forest .....	H077	0841	Microbiology Research .....	H033
0452	808 S. Forest .....	T189	0842	Bot.-Zool. Lab. General Studies .....	H027
0453	806 S. Forest .....	T206	0843	Bot.-Zool. Lab. General Studies .....	H026
0461	811 S. Elizabeth ....	T116	0857	Design Main Office ..	T129
0465	804 S. Elizabeth .....	T277	0859	Design .....	H031
0481	910 S. Elizabeth .....	T282	0861	Geology .....	T106
0483	1002 S. Elizabeth ....	T279	0862	Geology Annex 1 ...	H007
0485	1006 S. Elizabeth ....	T296	0863	Geology Annex 2 ....	H008
0487	1010 S. Elizabeth ....	T288	0864	Zoology Annex 2 ....	H009
0551	CESL .....	T042	0865	Zoology Annex .....	H010
0552	CESL .....	T041	0871	Geology .....	T105
0685	506 S. Graham .....	T316	0875	Geology Research ...	T107
0701	801 S. Washington ..	T084	0889	901 W. Chautauqua ..	T161
0725	207 E. Pearl .....	T165			
0742	204 E. Park .....	T175			
0744	208 E. Park .....	T182			
0821	2nd Ed. Shops .....	T025			

### Explanation of Entries

The entry for each course is arranged as follows:

First Line: The course's identification number is followed by the short title and the number of quarter hours of credit.

Second Line: The prerequisite (if applicable).

Section-Number Lines: The first column lists section numbers for courses offered summer quarter. An asterisk on the section number denotes an eight-week course. Eight-week courses meet from June 17 through August 8. Following each section number are the time the class begins and the time it ends. The days on which the class meets, the place where it meets, and the instructor's last name complete the entry.

### SCHEDULE OF GENERAL STUDIES COURSES

COURSE & SECTION NO.	TITLE & HOURS	DAYS	BLDG. & RM.	INSTRUCTOR
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#### General Studies Area A—Man's Physical Environment and Bio-

logical Inheritance		(GSA)				
101A	INTRC-PHYS SCIENCE				C4.C	CR
1	10.30-11.20	MT T-F	PARK	124		
2	12.30-01.20	W T-F	PARK	124		
	01.30-03.20	M	PHY SC	403		
3	12.30-01.20	W T-F	PARK	124		
	08.30-10.20	T	PHY SC	403		
4	12.30-01.20	W T-F	PARK	124		
	10.30-12.20	T	PHY SC	403		
5	12.30-01.20	W T-F	PARK	124		
	10.30-12.20	M	PHY SC	403		
6	02.30-03.20	MTW	PARK	124		
	08.30-10.20	T-F	PHY SC	403		



7	02.30-03.20	MTh	PARK	124	
	10.30-12.20	Th	PHY SC	403	
8	02.30-03.20	MTh	PARK	124	
	08.30-10.20	F	PHY SC	403	
9	02.30-03.20	MTh	PARK	124	
	10.30-12.20	F	PHY SC	403	
101B	INTRC-PHYS SCIENCE		C4.0	CR	
1	03.30-04.20	MThTh	PARK	124	
110A	EARTH ENVIRONMENT		C4.0	CR	
1	11.30-12.20	Th F	LAWSON	171	BERTONI
	TC BE ARRANGED				
2	01.30-02.20	Th F	LAWSON	171	
	TC BE ARRANGED				
110B	EARTH ENVIRONMENT		C4.0	CR	
1	12.30-01.20	MT Th	LAWSON	171	FARRIS
	TC BE ARRANGED				
201A	INTRODUCT BIOLOGY		C4.0	CR	
1	08.30-09.20	M W F	LAWSON	141	
	07.30-09.20	T	0842	108	
2	08.30-09.20	M W F	LAWSON	141	
	09.30-11.20	T	0842	108	
3	08.30-09.20	M W F	LAWSON	141	
	12.30-02.20	T	0842	108	
4	08.30-09.20	M W F	LAWSON	141	
	02.30-04.20	T	0842	108	
5	08.30-09.20	M W F	LAWSON	141	
	09.30-11.20	W	0842	108	
6	08.30-09.20	M W F	LAWSON	141	
	12.30-02.20	W	0842	108	
7	08.30-09.20	M W F	LAWSON	141	
	02.30-04.20	W	0842	108	
8	08.30-09.20	M W F	LAWSON	141	
	08.30-10.20	Th	0842	108	
201B	INTRODUCT BIOLOGY		C4.0	CR	
1	08.30-09.20	T Th	LAWSON	141	
	07.30-09.20	M W	0843	104	
2	08.30-09.20	T Th	LAWSON	141	
	09.30-11.20	M W	0843	104	
3	08.30-09.20	T Th	LAWSON	141	
	12.30-02.20	M W	0843	104	
4	08.30-09.20	T Th	LAWSON	141	
	02.30-04.20	M W	0843	104	
5	08.30-09.20	T Th	LAWSON	141	
	09.30-11.20	T Th	0843	104	
6	08.30-09.20	T Th	LAWSON	141	
	12.30-02.20	T Th	0843	104	
210A	INTRC ENVIRON BIOL		C4.0	CR	
	PREREQ GSA 110 OR CHEM 115				
1	01.30-02.20	M W F	LAWSON	151	PETERSEN
	07.30-08.20	M	0843	102	
2	01.30-02.20	M W F	LAWSON	151	PETERSEN
	09.30-10.20	M	0843	102	
3	01.30-02.20	M W F	LAWSON	151	PETERSEN
	11.30-12.20	M	0843	102	
4	01.30-02.20	M W F	LAWSON	151	PETERSEN
	07.30-08.20	T	0843	102	
5	01.30-02.20	M W F	LAWSON	151	PETERSEN
	09.30-10.20	T	0843	102	
6	01.30-02.20	M W F	LAWSON	151	PETERSEN
	11.30-12.20	T	0843	102	
7	01.30-02.20	M W F	LAWSON	151	PETERSEN
	01.30-02.20	T	0843	102	
8	01.30-02.20	M W F	LAWSON	151	PETERSEN
	03.30-04.20	T	0843	102	
9	01.30-02.20	M W F	LAWSON	151	PETERSEN
	12.30-01.20	Th	0843	102	



10	01.30-C2.20	M h F	LAWSON	151	PETERSEN
	02.30-C3.20	TH	0843	102	
210B	INTRC ENVIRON BICL		C4.C	CR	
	PRREQ GSA 11C CR CHEM	115			
1	10.30-11.20	M h F	LAWSON	151	PETERSEN
	07.30-08.20	TH	0843	102	
2	10.30-11.20	M h F	LAWSON	151	PETERSEN
	09.30-10.20	TH	0843	102	
3	10.30-11.20	M h F	LAWSON	151	PETERSEN
	11.30-12.20	TH	0843	102	
4	10.30-11.20	M h F	LAWSON	151	PETERSEN
	08.30-09.20	F	0843	102	
5	10.30-11.20	M h F	LAWSON	151	PETERSEN
	09.30-10.20	F	0843	102	
6	10.30-11.20	M h F	LAWSON	151	PETERSEN
	11.30-12.20	F	0843	102	
7	10.30-11.20	M h F	LAWSON	151	PETERSEN
	02.30-03.20	M	0843	102	
8	10.30-11.20	M h F	LAWSON	151	PETERSEN
	03.30-04.20	M	0843	102	
9	10.30-11.20	M h F	LAWSON	151	PETERSEN
	12.30-01.20	T	0843	102	
10	10.30-11.20	M h F	LAWSON	151	PETERSEN
	02.30-03.20	T	0843	102	
301	PRIN CF PHYSICLOGY		C4.C	CR	
1	09.30-10.20	M h F	LAWSON	171	RICHARDSON - GASS
	10.30-12.20	M	LS I	113	
2	09.30-10.20	M h F	LAWSON	171	RICHARDSON - GASS
	10.30-12.20	F	LS I	113	
3	09.30-10.20	M h F	LAWSON	171	RICHARDSON - GASS
	10.30-12.20	h	LS I	113	
4	09.30-10.20	M h F	LAWSON	171	RICHARDSON
	01.30-03.20	T	LS I	113	
5	09.30-10.20	M h F	LAWSON	171	RICHARDSON - GASS
	01.30-03.20	TH	LS I	113	
303	WILD FLWERS		C3.C	CR	
1	09.30-10.20	M	LAWSON	231	MCHLENBRCK
	12.30-02.20	h F	0842	101	
2	09.30-10.20	M	LAWSON	231	MCHLENBRCK
	02.30-04.20	h F	0842	101	
3	09.30-10.20	M	LAWSON	231	MCHLENBRCK
	12.30-02.20	h F	0843	101	
4	09.30-10.20	M	LAWSON	231	MCHLENBRCK
	02.30-04.20	h F	0843	101	
5	09.30-10.20	M	LAWSON	231	MCHLENBRCK
	12.30-02.20	M TH	0842	101	
312	CCNS CF NATURAL RES		C3.C	CR	
1	02.30-03.20	M h F	LAWSON	151	
313	EVCLTICN		C3.C	CR	
1	07.30-08.20	M h F	LAWSON	151	STAINS
314	MAN'S GEN HERITAGE		C3.C	CR	
1	10.30-11.20	T TH	LAWSON	151	ENGLERT
	10.30-11.20	F	LAWSON	141	
321	INTRC PALEONTOLGY		C3.C	CR	
1	12.30-01.20	h F	LAWSON	201	LTGAARD
	08.30-10.20	M	AG	17C	
2	12.30-01.20	h F	LAWSON	201	LTGAARD
	10.30-12.20	M	AG	17C	
3	12.30-01.20	h F	LAWSON	201	LTGAARD
	01.30-03.20	T	AG	17C	
4	12.30-01.20	h F	LAWSON	201	LTGAARD
	03.30-05.20	T	AG	17C	
322	INTR IC ROCKS + MIN		C3.C	CR	
1	07.30-08.20	T TH	AG	214	BELL
	08.30-10.20	h	AG	171	
2	07.30-08.20	T TH	AG	214	BELL
	10.30-12.20	h	AG	171	

3	07.30-08.20	M W	AG	214	BELL
	12.30-02.20	W	AG	171	
4	07.30-08.20	M W	AG	214	BELL
	02.30-04.20	W	AG	171	
331	CLIMATE		C3.0 CR		
1	08.30-09.20	M W	LAWSON	171	
	08.30-09.20		F AG	224	
2	08.30-09.20	M W	LAWSON	171	
	08.30-09.20		F WHLR	107	
3	08.30-09.20	M W	LAWSON	171	
	09.30-10.20		F WHLR	214	
4	08.30-09.20	M W	LAWSON	171	
	10.30-11.20		F WHLR	107	
5	08.30-09.20	M W	LAWSON	171	
	11.30-12.20		F COMM	122	
6	08.30-09.20	M W	LAWSON	171	
	09.30-10.20		F AG	224	
7	08.30-09.20	M W	LAWSON	171	
	10.30-11.20		F COMM	214	
8	08.30-09.20	M W	LAWSON	171	
	11.30-12.20		F COMM	214	
358A	ANAL CF PHYS SYSTEM		C3.0 CR		
	PREREQ 1ST LEVEL GSA AND MATH 111A AND B				
1	03.30-04.20	T TH	TECH A	222	
	01.30-03.20	T	TECH D	122	
2	03.30-04.20	T TH	TECH A	222	
	01.30-03.20	TH	TECH D	122	
358B	ANAL CF PHYS SYSTEM		C3.0 CR		
	PREREQ GSA 358A				
1	12.30-01.20	T TH	TECH A	208	
	01.30-03.20	TH	TECH B	139	
2	12.30-01.20	T TH	TECH A	208	
	01.30-03.20	T	TECH B	139	
361	ACCUSTICS CF MUSIC		C3.0 CR		
1*	01.30-02.20	M W TH F	ALTE	141	GORDON
363A	PHIL CF SCIENCE		C3.0 CR		
	PREREQ 1ST LEV SEQ CR ITS EQLIV IN AREA A				
1	09.30-10.20	M W F	H EC	118	

### General Studies Area B—Man's Social Inheritance and Social Responsibilities (GSB)

101B	SURV-WEST TRADITION		C4.0 CR		
1	07.30-08.20	MT TH	LAWSON	141	BREHM
	09.30-10.20	M	MAIN	309	
2	07.30-08.20	MT TH	LAWSON	141	BREHM
	10.30-11.20	T	H EC	208	
3	07.30-08.20	MT TH	LAWSON	141	BREHM
	11.30-12.20	W	MAIN	102A	
4	07.30-08.20	MT TH	LAWSON	141	BREHM
	12.30-01.20	TH	MAIN	102A	
5	07.30-08.20	MT TH	LAWSON	141	BREHM
	01.30-02.20		F MAIN	102	
6	07.30-08.20	MT TH	LAWSON	141	BREHM
	02.30-03.20	M	MAIN	102	
7	07.30-08.20	MT TH	LAWSON	141	BREHM
	08.30-09.20	W	H EC	208	
8	07.30-08.20	MT TH	LAWSON	141	BREHM
	09.30-10.20	TH	MAIN	102	
9	07.30-08.20	MT TH	LAWSON	141	BREHM
	10.30-11.20		F WHAM	112	
10	07.30-08.20	MT TH	LAWSON	141	BREHM
	11.30-12.20	M	WHAM	319	
11	07.30-08.20	MT TH	LAWSON	141	BREHM
	12.30-01.20	T	H EC	201	
12	07.30-08.20	MT TH	LAWSON	141	BREHM
	01.30-02.20	W	H EC	106	

101C SURV-WEST TRADITION			C4.C CR		
1	11.30-12.20	T T-F	PARK	124	ZUCKER
	08.30-09.20	F	H EC	206	
2	11.30-12.20	T T-F	PARK	124	ZUCKER
	09.30-10.20	TH	H EC	202	
3	11.30-12.20	T T-F	PARK	124	ZUCKER
	10.30-11.20	W	WHAM	303	
4	11.30-12.20	T T-F	PARK	124	ZUCKER
	11.30-12.20	M	MAIN	207	
5	11.30-12.20	T T-F	PARK	124	ZUCKER
	12.30-01.20	M	WHAM	112	
6	11.30-12.20	T T-F	PARK	124	ZUCKER
	01.30-02.20	T	H EC	303	
102A MAN AND HIS WORLD			C4.0 CR		
1	09.30-10.20	M W F	LAWSON	151	MULLER J
	07.30-08.20	T	H EC	306	
2	09.30-10.20	M W F	LAWSON	151	MULLER J
	08.30-09.20	T	H EC	306	
3	09.30-10.20	M W F	LAWSON	151	MULLER J
	09.30-10.20	T	H EC	306	
4	09.30-10.20	M W F	LAWSON	151	MULLER J
	10.30-11.20	T	H EC	306	
5	09.30-10.20	M W F	LAWSON	151	MULLER J
	11.30-12.20	T	H EC	306	
6	09.30-10.20	M W F	LAWSON	151	MULLER J
	12.30-01.20	T	H EC	306	
7	09.30-10.20	M W F	LAWSON	151	MULLER J
	01.30-02.20	T	H EC	306	
8	09.30-10.20	M W F	LAWSON	151	MULLER J
	02.30-03.20	T	H EC	306	
9	09.30-10.20	M W F	LAWSON	151	MULLER J
	12.30-01.20	W	H EC	306	
10	09.30-10.20	M W F	LAWSON	151	MULLER J
	01.30-02.20	W	WHAM	306	
11	09.30-10.20	M W F	LAWSON	151	MULLER J
	02.30-03.20	W	H EC	306	
12	11.30-12.20	M W F	LAWSON	151	WALKER M
	07.30-08.20	TH	H EC	306	
13	11.30-12.20	M W F	LAWSON	151	WALKER M
	08.30-09.20	TH	H EC	306	
14	11.30-12.20	M W F	LAWSON	151	WALKER M
	09.30-10.20	TH	H EC	306	
15	11.30-12.20	M W F	LAWSON	151	WALKER M
	10.30-11.20	TH	H EC	306	
16	11.30-12.20	M W F	LAWSON	151	WALKER M
	11.30-12.20	TH	H EC	306	
17	11.30-12.20	M W F	LAWSON	151	WALKER M
	12.30-01.20	TH	H EC	306	
18	11.30-12.20	M W F	LAWSON	151	WALKER M
	01.30-02.20	TH	H EC	306	
19	11.30-12.20	M W F	LAWSON	151	WALKER M
	02.30-03.20	TH	H EC	306	
20	11.30-12.20	M W F	LAWSON	151	WALKER M
	07.30-08.20	F	H EC	306	
21	11.30-12.20	M W F	LAWSON	151	WALKER M
	08.30-09.20	F	MAIN	306	
22	11.30-12.20	M W F	LAWSON	151	WALKER M
	09.30-10.20	F	H EC	306	
102B MAN AND HIS WORLD			C4.C CR		
1	07.30-08.20	M W	LAWSON	171	
	07.30-08.20	T TH	COMM	111	
2	07.30-08.20	M W	LAWSON	171	
	07.30-08.20	T TH	COMM	118	
3	07.30-08.20	M W	LAWSON	171	
	07.30-08.20	T TH	COMM	120	
4	07.30-08.20	M W	LAWSON	171	
	09.30-10.20	M W	AG	168	

5	07.30-08.20	M W	LAWSON	171	
	09.30-10.20	M W	AG	224	
6	07.30-08.20	M W	LAWSON	171	
	08.30-09.20	T TH	MAIN	206	
7	07.30-08.20	M W	LAWSON	171	
	08.30-09.20	T TH	AG	168	
8	07.30-08.20	M W	LAWSON	171	
	08.30-09.20	T TH	AG	220	
9	07.30-08.20	M W	LAWSON	171	
	12.30-01.20	T TH	PHY SC	116	
10	07.30-08.20	M W	LAWSON	171	
	12.20-01.20	T TH	TECH C	131	
11	10.30-11.20	M W	LAWSON	171	
	12.30-01.20	M W	H EC	201	
12	10.30-11.20	M W	LAWSON	171	
	12.30-01.20	M W	H EC	202	
13	10.30-11.20	M W	LAWSON	171	
	01.30-02.20	T TH	WHLR	212	
14	10.30-11.20	M W	LAWSON	171	
	01.30-02.20	T TH	PHY SC	116	
15	10.30-11.20	M W	LAWSON	171	
	01.30-02.20	M W	AG	168	
16	10.30-11.20	M W	LAWSON	171	
	01.30-02.20	M W	AG	116	
17	10.30-11.20	M W	LAWSON	171	
	02.30-03.20	T TH	H EC	106	
18	10.30-11.20	M W	LAWSON	171	
	02.30-03.20	T TH	WHLR	214	
19	10.30-11.20	M W	LAWSON	171	
	02.30-03.20	M W	WHLR	214	
20	10.30-11.20	M W	LAWSON	171	
	02.30-03.20	M W	H EC	102	
201B	SOCIETY + BEHAVIOR		C4.C	CR	
1	09.30-10.20	T TH	LAWSON	141	PATTERSON
	08.30-09.20	W F	CL	109	
2	09.30-10.20	T TH	LAWSON	141	PATTERSON
	10.30-11.20	W F	WHAM	317	
3	09.30-10.20	T TH	LAWSON	141	PATTERSON
	10.30-11.20	W F	MAIN	102A	
4	09.30-10.20	T TH	LAWSON	141	PATTERSON
	12.30-01.20	W F	ARENA	123	
5	09.30-10.20	T TH	LAWSON	141	PATTERSON
	12.30-01.20	W F	H EC	120	
6	09.30-10.20	T TH	LAWSON	141	PATTERSON
	02.30-03.20	W F	WHAM	326	
7	09.30-10.20	T TH	LAWSON	141	PATTERSON
	03.30-04.20	W F	WHAM	208	
8	09.30-10.20	T TH	LAWSON	141	PATTERSON
	03.30-04.20	W F	WHAM	112	
201C	SOCIETY + BEHAVIOR		C4.C	CR	
1	10.30-11.20	M W	LAWSON	141	CARRIER
	07.30-09.20	TH	AG	116	
2	10.30-11.20	M W	LAWSON	141	CARRIER
	09.30-11.20	TH	AG	116	
3	10.30-11.20	M W	LAWSON	141	CARRIER
	11.30-01.20	TH	AG	116	
4	10.30-11.20	M W	LAWSON	141	CARRIER
	01.30-03.20	TH	AG	116	
5	10.30-11.20	M W	LAWSON	141	CARRIER
	07.30-09.20	F	AG	150	
6	10.30-11.20	M W	LAWSON	141	CARRIER
	09.30-11.20	F	AG	150	
7	10.30-11.20	M W	LAWSON	141	CARRIER
	11.30-01.20	F	AG	214	
8	10.30-11.20	M W	LAWSON	141	CARRIER
	01.30-03.20	F	AG	214	



9	10.30-11.20	M W	LAWSON	141	CARRIER
	09.30-11.20	TH	AG	168	
10	10.30-11.20	M W	LAWSON	141	CARRIER
	11.30-01.20	TH	AG	168	
211A	POLITICAL ECONOMY		C4.C	CR	
1	08.30-09.20	MTWTH	LAWSON	151	
211B	POLITICAL ECONOMY		C4.C	CR	
1	07.30-08.20	MTWTH	WHAM	228	
2	08.30-09.20	T TH	TECH A	222	
	08.30-09.20	W F	MAIN	302	
3	09.30-10.20	MT THF	AG	220	
4	10.30-11.20	MTW F	MAIN	207	
5	11.30-12.20	MTWTH	WHAM	201	
6	12.30-01.20	MTWTH	WHAM	208	
7	01.30-02.20	M W	MAIN	209	
	01.30-02.20	T TH	AG	202	
300A	UNITED STATES HIST		C3.C	CR	
1	08.30-09.20	MT TH	F EC	140B	BATINSKI
300B	UNITED STATES HIST		C3.C	CR	
1	09.30-10.20	M W F	PARK	124	CONRAD
300C	UNITED STATES HIST		C3.C	CR	
1	10.30-11.20	T TH	LAWSON	161	MURPHY
	10.30-11.20	F	LAWSON	171	
302	LAW CIVIL RIGHTS		C3.C	CR	
1	08.30-09.20	M	MAIN	207	
	08.30-09.20	T TH	F EC	203	
303	INTERNATIONAL REL		C3.C	CR	
1	07.30-08.20	M W F	WHAM	112	
2	08.30-09.20	M W F	PULL	43	
3	01.30-02.20	M	LAWSON	221	
	01.30-02.20	W F	MAIN	207	
304	LAW HIST PHIL		C3.C	CR	
1	12.30-01.20	MT TH	WHAM	307	ABBASS
311	ECON DEVELOP OF U S		C3.C	CR	
	PREREQ GSB 101B, CR 211A, B, CR 215				
1	11.30-12.20	T THF	CL	210	ADAMS
321	SOCIALIZAT OF INDIV		C3.C	CR	
1	10.30-11.20	M W F	CL	109	NALL
2	11.30-12.20	M W	COMM	116	NALL
	11.30-12.20	F	CL	24	
331	AMER ED SYSTEM		C3.C	CR	
1	07.30-08.20	M W F	WHAM	321	
2	08.30-09.20	M W F	WHAM	321	
3	09.30-10.20	M W F	WHAM	321	
4	10.30-11.20	M W F	WHAM	321	
5	11.30-12.20	M W F	WHAM	328	
6	12.30-01.20	M W F	WHAM	326	
7	01.30-02.20	M W F	WHAM	321	
341	MARRIAGE		C3.C	CR	
1	08.30-09.20	M W F	TECH A	111	NALL
361	FUND OF DECIS MAKE		C3.C	CR	
	PREREQ MATH 111B				
1	11.30-12.20	M W F	TECH A	111	
385	CONTEMP POL ISMS		C3.C	CR	
1	09.30-10.20	MT TH	LAWSON	131	KAMARASY
390	INTR IC COMP GOVTS		C3.C	CR	
1	09.30-10.20	M	WHAM	302	GARNER
	09.30-10.20	W F	LAWSON	131	
392	INTRC L A GOVT POL		C3.C	CR	
1	08.30-09.20	M W F	LAWSON	131	GARNER

### General Studies Area C—Man's Insights and Appreciations (GSC)

100	MUSIC UNDERSTANDING		C3.C	CR	
1	08.30-09.20	T THF	LAWSON	161	CHADWICK + NADAF
2	10.30-11.20	M W F	LAWSON	161	BETTERTON + FUSSEY

3	11.30-12.20	M W F	LAWSON	161	CHADWICK + BETTERTON
13	01.30-02.20	T TH	LAWSON	151	
	10.30-12.20	W	ALLYN	106	
14	01.30-02.20	T TH	LAWSON	151	
	07.30-09.20	F	ALLYN	106	
15	01.30-02.20	T TH	LAWSON	151	
	10.30-12.20	F	ALLYN	106	
102	PRCB-MORAL DEC-PHIL			C3.0	CR
1	09.30-10.20	M W	LAWSON	141	KELLY
	10.30-11.20	W	H EC	122	
2	09.30-10.20	M W	LAWSON	141	KELLY
	12.30-01.20	W	H EC	208	
3	09.30-10.20	M W	LAWSON	141	KELLY
	01.30-02.20	W	H EC	201	
4	09.30-10.20	M W	LAWSON	141	KELLY
	08.30-09.20	TH	H EC	208	
5	09.30-10.20	M W	LAWSON	141	KELLY
	10.30-11.20	TH	H EC	208	
6	09.30-10.20	M W	LAWSON	141	KELLY
	12.30-01.20	TH	H EC	201	
7	09.30-10.20	M W	LAWSON	141	KELLY
	01.30-02.20	TH	WHAM	303	
8	09.30-10.20	M W	LAWSON	141	KELLY
	08.30-09.20	F	MAIN	303	
9	09.30-10.20	M W	LAWSON	141	KELLY
	10.30-11.20	F	WHLR	214	
10	09.30-10.20	M W	LAWSON	141	KELLY
	02.30-03.20	TH	H EC	208	
11	09.30-10.20	M W	LAWSON	141	KELLY
	12.30-01.20	F	H EC	104	
12	09.30-10.20	M W	LAWSON	141	KELLY
	09.30-10.20	F	MAIN	206	
13	12.30-01.20	T TH	LAWSON	141	MCCRE
	10.30-11.20	F	MAIN	206	
14	12.30-01.20	T TH	LAWSON	141	MCCRE
	01.30-02.20	F	H EC	208	
15	12.30-01.20	T TH	LAWSON	141	MCCRE
	08.30-09.20	T	WHLR	113	
16	12.30-01.20	T TH	LAWSON	141	MCCRE
	09.30-10.20	T	MAIN	206	
17	12.30-01.20	T TH	LAWSON	141	MCCRE
	03.30-04.20	TH	H EC	202	
101	ART APPRECIATION			C3.0	CR
1	01.30-02.20	T TH	LAWSON	151	
	01.30-03.20	M	ALLYN	102	
2	01.30-02.20	T TH	LAWSON	151	
	01.30-03.20	W	ALLYN	102	
3	01.30-02.20	T TH	LAWSON	151	
	10.30-12.20	F	ALLYN	102	
4	01.30-02.20	T TH	LAWSON	151	
	07.30-09.20	M	ALLYN	102	
5	01.30-02.20	T TH	LAWSON	151	
	10.30-12.20	M	ALLYN	102	
6	01.30-02.20	T TH	LAWSON	151	
	07.30-09.20	W	ALLYN	102	
7	01.30-02.20	T TH	LAWSON	151	
	10.30-12.20	W	ALLYN	102	
8	01.30-02.20	T TH	LAWSON	151	
	07.30-09.20	F	ALLYN	102	
9	01.30-02.20	T TH	LAWSON	151	
	07.30-09.20	T	ALLYN	102	
10	01.30-02.20	T TH	LAWSON	151	
	07.30-09.20	TH	ALLYN	102	
11	01.30-02.20	T TH	LAWSON	151	
	07.30-09.20	M	ALLYN	106	
12	01.30-02.20	T TH	LAWSON	151	
	10.30-12.20	M	ALLYN	106	

18	12.30-01.20	T TH	LAWSON	141	MCCRE
	02.30-03.20	F	H EC	202	
19	12.30-01.20	T TH	LAWSON	141	MCCRE
	10.30-11.20	T	H EC	202	
20	12.30-01.20	T TH	LAWSON	141	MCCRE
	01.30-02.20	TH	WHLR	214	
21	12.30-01.20	T TH	LAWSON	141	MCCRE
	02.30-03.20	TH	WHLR	212	
22	12.30-01.20	T TH	LAWSON	141	MCCRE
	03.30-04.20	TH	H EC	203	
23	12.30-01.20	T TH	LAWSON	141	MCCRE
	08.30-09.20	F	WHAM	317	
24	12.30-01.20	T TH	LAWSON	141	MCCRE
	09.30-10.20	F	WHAM	307	
103	WCRLD LIT FOR CCMP			03.0	CR
1	07.30-08.20	M W F	MAIN	306	
2	07.30-08.20	M W F	MAIN	306A	
3	08.30-09.20	M W F	MAIN	306	
4	09.30-10.20	M W F	MAIN	306	
5	09.30-10.20	M W F	MAIN	210	
6	10.30-11.20	M W F	MAIN	102	
7	11.30-12.20	M W F	MAIN	306	
8	11.30-12.20	M	MAIN	206	
	11.30-12.20	W F	H EC	102	
9	12.30-01.20	M W F	WHAM	317	
10	01.30-02.20	M W F	MAIN	306	
11	01.30-02.20	M W F	MAIN	206	
12	02.30-03.20	M W F	H EC	208	
13	02.30-03.20	M W F	MAIN	102A	
14	03.30-04.20	M W F	MAIN	102A	
200	GRAL INTERP CF LIT			04.0	CR
1	08.30-09.20	MTWTH	COMM	118	
2	01.30-02.20	MT THF	COMM	118	
201	INTRO TO DRAMA			03.0	CR
1	08.30-09.20	M	MAIN	201	
	08.30-09.20	W F	COMM	116	
2	10.30-11.20	M W F	MAIN	203	
3	12.30-01.20	MT TH	MAIN	210	
4	01.30-02.20	M W F	ARENA	123	
5	02.30-03.20	M W F	H EC	201	
6	03.30-04.20	MT TH	H EC	201	
202	INTRO TO POETRY			03.0	CR
1	07.30-08.20	M W F	MAIN	203	
2	10.30-11.20	MT TH	MAIN	206	
3	12.30-01.20	MT TH	WHAM	319	
4	02.30-03.20	MT TH	WHAM	326	
203	DRAMA-ARTS CF THEA			03.0	CR
1	10.30-11.20	T TH	LAWSON	141	GRAY
	12.30-01.20	TH	WHAM	305	
2	10.30-11.20	T TH	LAWSON	141	GRAY
	01.30-02.20	TH	WHAM	307	
3	10.30-11.20	T TH	LAWSON	141	GRAY
	02.30-03.20	TH	WHAM	307	
4	10.30-11.20	T TH	LAWSON	141	GRAY
	12.30-01.20	F	WHAM	307	
5	10.30-11.20	T TH	LAWSON	141	GRAY
	01.30-02.20	F	WHAM	303	
6	10.30-11.20	T TH	LAWSON	141	GRAY
	02.30-03.20	F	WHAM	303	
204	MEANING IN VIS ARTS			04.0	CR
	PREREQ GSC 101 OR CCNSENT				
1	09.30-10.20	M	LAWSON	161	PAULSON
	09.30-10.20	T TH	LAWSON	151	PAULSON
205	MAN'S CONTEMP ENVIR			04.0	CR
1	08.30-10.20	T	LAWSON	171	
	08.30-09.20	THF	LAWSON	171	

206	FOUNDATIONS OF MUS			C4.0 CR	
1	07.30-08.20	MT TFF	ALTC	116	CHADWICK + INTRAVAIA
207	PHIL OF BEAUTIFUL			C3.0 CR	
1	10.30-11.20	T TH	TECH A	111	MCCLURE
	12.30-01.20	TH	H EC	202	
2	10.30-11.20	T TH	TECH A	111	MCCLURE
	01.30-02.20	TH	H EC	202	
3	10.30-11.20	T TH	TECH A	111	MCCLURE
	08.30-09.20	F	WHAM	112	
4	10.30-11.20	T TH	TECH A	111	MCCLURE
	09.30-10.20	F	H EC	202	
5	10.30-11.20	T TH	TECH A	111	MCCLURE
	08.30-09.20	T	H EC	202	
6	10.30-11.20	T TH	TECH A	111	MCCLURE
	09.30-10.20	T	CL	326	
7	10.30-11.20	T TH	TECH A	111	MCCLURE
	02.30-03.20	TH	H EC	201	
8	10.30-11.20	T TH	TECH A	111	MCCLURE
	10.30-11.20	F	H EC	106	
208	LOGIC AND MEANING			C4.0 CR	
1	08.30-09.20	M W	LAWSON	161	MCCRE
	09.30-10.20	M W	MAIN	305	
2	08.30-09.20	M W	LAWSON	161	MCCRE
	10.30-11.20	M W	WHAM	301B	
3	08.30-09.20	M W	LAWSON	161	MCCRE
	11.30-12.20	M W	PULL	41	
4	08.30-09.20	M W	LAWSON	161	MCCRE
	12.30-01.20	M W	MAIN	206	
5	08.30-09.20	M W	LAWSON	161	MCCRE
	01.30-02.20	M W	MAIN	206	
6	08.30-09.20	M W	LAWSON	161	MCCRE
	09.30-10.20	T TH	CCMM	118	
7	08.30-09.20	M W	LAWSON	161	MCCRE
	10.30-11.20	T TH	WHLR	207	
8	08.30-09.20	M W	LAWSON	161	MCCRE
	11.30-12.20	T TH	H EC	208	
9	08.30-09.20	M W	LAWSON	161	MCCRE
	12.30-01.20	T TH	H EC	203	
10	08.30-09.20	M W	LAWSON	161	MCCRE
	01.30-02.20	T TH	H EC	206	
11	08.30-09.20	M W	LAWSON	161	MCCRE
	07.30-08.20	T TH	H EC	208	
12	08.30-09.20	M W	LAWSON	161	MCCRE
	09.30-10.20	W F	MAIN	207	
209	MCD LIT FORM IDEA			C4.0 CR	
1	07.30-08.20	MT TFF	H EC	122	
2	08.30-09.20	MT TFF	MAIN	306A	
3	12.30-01.20	MTW F	WHAM	308	
4	12.30-01.20	MT F	H EC	202	
	12.30-01.20	TH	H EC	206	
5	02.30-03.20	MT TFF	H EC	118	
6	03.30-04.20	MTWTH	H EC	203	
210	INTRC TC FICTION			C3.0 CR	
1	07.30-08.20	M W F	MAIN	310	
2	07.30-08.20	M W F	H EC	104	
3	09.30-10.20	M W F	MAIN	310	
4	10.30-11.20	M W F	MAIN	309	
5	11.30-12.20	M	MAIN	102A	
	11.30-12.20	W F	MAIN	102	
6	01.30-02.20	MT TH	MAIN	201	
7	02.30-03.20	MT TH	H EC	203	
307	EARLY ISLAMIC CUL			C3.0 CR	
1	10.30-11.20	T TH	WHAM	303	ABBASS
	10.30-11.20	F	WHAM	307	
317	RECENT AMER LIT			C3.0 CR	
1	07.30-08.20	M W F	MAIN	102A	



2	08.30-09.20	M W F	MAIN	102A	
3	09.30-10.20	MT TH	H EC	208	
4	10.30-11.20	M W F	MAIN	201	
5	11.30-12.20	M W F	WHAM	321	
6	12.30-01.20	M W F	CL	326	
7	01.30-02.20	M W F	H EC	102	
8	02.30-03.20	MT TH	ARENA	123	
9	03.30-04.20	MT TH	H EC	122	
341	MODERN ART B-20 GEN		C3.C	CR	
1	07.30-08.20	M W F	LAWSON	161	KURTZ
345A	WORLD LITERATURE		C3.0	CR	
1	10.30-11.20	MT TH	WFLR	214	
2	11.30-12.20	MT TH	ARENA	204	
345B	WORLD LITERATURE		C3.0	CR	
1	01.30-02.20	M	ARENA	121	
	01.30-02.20	T TH	ARENA	123	
2	02.30-03.20	MT TH	CCMM	214	
345C	WORLD LITERATURE		C3.0	CR	
1	07.30-08.20	M W F	WHAM	329	
2	08.30-09.20	M	H EC	224	
	08.30-09.20	W F	HEC	202	
3	11.30-12.20	M	H EC	203	
	11.30-12.20	T TH	H EC	206	
4	02.30-03.20	MT TH	HEC	202	
351A	MASTERPIECES NOVEL		C3.0	CR	
1	08.30-09.20	MT	CL	326	
	08.30-09.20	TH	CL	109	
351B	MASTERPIECES NOVEL		C3.C	CR	
1	09.30-10.20	MT TH	WHLR	203	
2	12.30-01.20	M	COMM	120	
	12.30-01.20	T TH	CCMM	116	
363A	PHIL OF SCIENCE		C3.C	CR	
1	09.30-10.20	M W F	H EC	118	
365	SHAKESPEARE		C3.C	CR	
1	09.30-10.20	MT TH	MAIN	207	
2	12.30-01.20	MT TH	H EC	208	
3	01.30-02.20	M	WFLR	207	
	01.30-02.20	T TH	MAIN	102A	
4	02.30-03.20	MT TH	MAIN	201	
381	GREEK PHILOSOPHY		C3.0	CR	
1	09.30-10.20	M W F	H EC	208	FLICKMANN + EARALT
382	GRAECO-ROM MED PHIL		C3.C	CR	
1	10.30-11.20	M W F	H EC	208	KELLY
383	EARLY MODERN PHIL		C3.0	CR	
1	11.30-12.20	M W F	H EC	208	CLARKE

### General Studies Area D—Organization and Communication of

#### Ideas (GSD)

101	ENGLISH COMPOSITION		C3.C	CR	
1	07.30-08.20	M W F	MAIN	307	
2	07.30-08.20	M W F	GYM	203	
3	07.30-08.20	M W F	H EC	118	
4	08.30-09.20	M W F	MAIN	310	
5	08.30-09.20	M W F	GYM	203	
6	08.30-09.20	M W F	MAIN	307	
7	08.30-09.20	M W F	MAIN	305A	
8	08.30-09.20	M W F	MAIN	301	
9	09.30-10.20	M W F	MAIN	306A	
10	09.30-10.20	M	MAIN	302	
	09.30-10.20	W F	GYM	203	
11	09.30-10.20	M W F	MAIN	305A	
12	09.30-10.20	M W F	MAIN	303	
13	09.30-10.20	M W TH	MAIN	301	
14	10.30-11.20	M W F	MAIN	306	
15	10.30-11.20	M W F	GYM	203	

16	10.30-11.20	M	W	F	MAIN	305A
17	10.30-11.20	M	W	F	MAIN	307
18	10.30-11.20	M	W	F	MAIN	302
19	11.30-12.20	M	W	F	MAIN	203
20	11.30-12.20	M	W	F	MAIN	310
21	11.30-12.20	M	W	F	GYM	203
22	11.30-12.20	M	W	F	MAIN	303
23	11.30-12.20	M	W	F	H EC	120
24	11.30-12.20	M			H EC	202
	11.30-12.20		W	F	H EC	203
25	11.30-12.20	M	W		WHAM	210
	11.30-12.20			F	WHAM	203
26	11.30-12.20	M	W	F	WHAM	307
27	12.30-01.20	M	W	F	MAIN	203
28	12.30-01.20	M	W	F	MAIN	304A
29	12.30-01.20	M	W	F	WHAM	321
30	12.30-01.20	M	W	F	MAIN	209
31	01.30-02.20	M	W	F	MAIN	203
32	01.30-02.20	M	W	F	GYM	203
33	01.30-02.20	M	W	F	MAIN	210
34	02.30-03.20	M	W	F	WHAM	307
35	02.30-03.20	M	W	F	GYM	203
36	02.30-03.20	M	W	F	WHAM	321
37	02.30-03.20	M	W	F	WHAM	305
38	03.30-04.20	M	W	F	WFLR	212
39	03.30-04.20	M	W	F	GYM	203
40	03.30-04.20	MT	TH		WHAM	305

102 ENGLISH COMPOSITION 03.0 CR  
PREREQ GSD 101 OR EQUIVALENT

1	07.30-08.20	M	W	F	MAIN	210
2	07.30-08.20	M	W	F	MAIN	206
3	08.30-09.20	M	W	F	MAIN	203
4	08.30-09.20	M	W	F	MAIN	210
5	09.30-10.20	M	W		MAIN	307
	09.30-10.20			F	WHAM	210
6	09.30-10.20	M	W	F	MAIN	304A
7	10.30-11.20	M	W	F	MAIN	303
8	11.30-12.20	M	W	F	MAIN	201
9	12.30-01.20	M	W	F	WHAM	312
10	12.30-01.20	M	W	F	H EC	118
11	01.30-02.20	M			WHAM	112
	01.30-02.20		T	TH	MAIN	102
12	01.30-02.20	M			LAWSON	201
	01.30-02.20		W	F	MAIN	201
13	02.30-03.20	M	W	F	H EC	106
14	03.30-04.20	MT	TH		H EC	118

103	GRAL COMM OF IDEAS					03.0 CR
1	07.30-08.20		T	THF	COMM	116
	11.30-12.20	M			COMM	118
2	08.30-09.20	MT	TH		COMM	116
	11.30-12.20	M			H EC	102
3	09.30-10.20		T	TH	COMM	116
	09.30-10.20			F	COMM	122
	11.30-12.20	M			COMM	120
4	10.30-11.20	MT	TH		COMM	116
	11.30-12.20	M			H EC	102
5	10.30-11.20		T	THF	COMM	118
	11.30-12.20	M			COMM	120
6	11.30-12.20		T	THF	COMM	116
	11.30-12.20	M			COMM	120 <i>11</i>
7	11.30-12.20		T	THF	COMM	118 <i>11</i>
	11.30-12.20	M			LAWSON	231 <i>11</i>
8	11.30-12.20		W	THF	COMM	120
	11.30-12.20	M			LAWSON	101
9	11.30-12.20	M			TECH A	308
	11.30-12.20		T		COMM	120
	11.30-12.20		W	TH	COMM	122

10	12.30-01.20	M W F	CCMM	116
	11.30-12.20	M	CCMM	122
11	12.30-01.20	T T F F	CCMM	118
	11.30-12.20	M	LAWSCN	231
12	12.30-01.20	W T F F	CCMM	120
	11.30-12.20	M	LAWSCN	101
13	01.30-02.20	M W F	CCMM	116
	11.30-12.20	M	CCMM	122
14	01.30-02.20	T T F	CCMM	116
	01.30-02.20	F	CCMM	120
	11.30-12.20	M	TECH A	308
15	01.30-02.20	M W F	H EC	203
	11.30-12.20	M	H EC	206
16	02.30-03.20	T W T F	CCMM	120
	11.30-12.20	M	TECH A	310
17	02.30-03.20	M W F	H EC	206
	11.30-12.20	M	H EC	206
18	03.30-04.20	T W T F	CCMM	120
	11.30-12.20	M	TECH A	310
106	INTERMED ALGEBRA		00.0 CR	
1	07.30-08.20	T W T F F	TECH A	210
2	11.30-12.20	M W T F F	PHY SC	118
3	12.30-01.20	M T W T F	PHY SC	118
4	03.30-04.20	M T W T F	TECH D	131
107A	BASIC COLLEGE MATH		05.0 CR	
	PREREQ H.S. CR GSD 106			
1	07.30-08.20	M T W T F F	TECH A	320
2	09.30-10.20	M T W T F F	PHY SC	218
3	09.30-10.20	M T W T F F	PHY SC	118
4	11.30-12.20	M T W T F F	TECH D	131
5	12.30-01.20	M W T F F	TECH A	320
	12.30-01.20	T	TECH D	131
6	02.30-03.20	M T W T F F	PHY SC	118
7	03.30-04.20	M T W T F F	TECH A	320
108B	FUND-MATHEMATICS		03.0 CR	
	PREREQ GSD 108A CR HIGH SCHCOLL EQUIV			
1	08.30-09.20	M W T F	TECH A	220
2	11.30-12.20	T T F	TECH A	310
	11.30-12.20	M	TECH A	320
3	01.30-02.20	M W F	TECH A	320
4	03.30-04.20	M T T F	TECH A	310
108C	FUND-MATHEMATICS		03.0 CR	
	PREREQ GSD 108B CR HIGH SCHCOLL EQUIV			
1	07.30-08.20	M W F	TECH A	220
2	09.30-10.20	M T T F	TECH A	210
3	12.30-01.20	M W F	TECH D	131
4	02.30-03.20	M W T F	PHY SC	116
110	ECCN-BUS STATISTICS		03.0 CR	
	PREREQ GSD 108B, 114B, CR EQUIV			
1	12.30-01.20	M W T F	LAWSON	151
123	ELEMENTARY FRENCH		09.0 CR	
1	07.30-09.20	M T W T F	WHLR	107
	07.30-08.20	F	WHLR	107
	08.30-09.20	F	WCCDY	1012
	ACCELERATED			
2	11.30-01.20	M T W T F	WHLR	107
	11.30-12.20	F	WHLR	107
	12.30-01.20	F	WCCDY	1012
	ACCELERATED			
3	12.30-02.20	T W T F F	WHLR	207
	12.30-01.20	M	WHLR	207
	01.30-02.20	M	WCCDY	1012
	ACCELERATED			
123B	ELEMENTARY FRENCH		03.0 CR	
	PREREQ GSD 123A			

1	10.30-11.20	M TH	H EC	202	
	10.30-11.20		F	H EC	102
	10.30-11.20	T	WCCDY	1012	
2	12.30-01.20	MT F	WHLR	214	
	12.30-01.20	TH	WCCDY	1012	
123C	ELEMENTARY FRENCH			C3.0 CR	
	PREREQ GSD 123B				
1	08.30-09.20	M TH F	AG	216	
	08.30-09.20	W	WCCDY	1012	
2	09.30-10.20	M W F	MAIN	203	
	09.30-10.20	T	WCCDY	1012	
3	01.30-02.20	MT TH	WHLR	107	
	01.30-02.20	W	WCCDY	1012	
126	ELEMENTARY GERMAN			09.0 CR	
1	08.30-10.20	MTWTH	WHLR	214	
	08.30-09.20		F	WHLR	214
	09.30-10.20		F	WHLR	5
	ACCELERATED				
2	09.30-11.20	MTW F	MAIN	209	
	09.30-10.20	TH	MAIN	209	
	10.30-11.20	TH	WHLR	5	
	ACCELERATED				
3	01.30-03.20	MT TH F	WHLR	113	
	01.30-02.20	W	WHLR	113	
	02.30-03.20	W	WHLR	5	
	ACCELERATED				
126C	ELEMENTARY GERMAN			C3.0 CR	
	PREREQ GSD 126B				
1	08.30-09.20	M W F	WHLR	113	
	08.30-09.20	TH	WHLR	5	
2	01.30-02.20	M W TH	TECH A	220	
	01.30-02.20	F	WHLR	5	
3	02.30-03.20	M W F	WHLR	212	
	02.30-03.20	TH	WHLR	5	
136	ELEMENTARY RUSSIAN			C9.0 CR	
1	08.30-10.20	MT TH F	WHLR	212	CRECHWA + KUFCEK
	08.30-09.20	W	WHLR	212	
	09.30-10.20	W	WHLR	5	
	ACCELERATED				
140	ELEMENTARY SPANISH			C9.0 CR	
1	10.30-12.20	MTW F	H EC	104	
	10.30-11.20	TH	H EC	104	
	11.30-12.20	TH	WHLR	5	
	ACCELERATED COURSE				
2	01.30-03.20	M W TH F	H EC	104	
	01.30-02.20	T	H EC	104	
	02.30-03.20	T	WHLR	5	
	ACCELERATED COURSE				
3	02.30-04.20	MTW F	WHLR	107	
	02.30-03.20	TH	WHLR	107	
	03.30-04.20	TH	WHLR	5	
	ACCELERATED COURSE				
140A	ELEMENTARY SPANISH			C3.0 CR	
1	12.30-01.20	M W TH	WHLR	113	
	12.30-01.20	T	WHLR	5	
140B	ELEMENTARY SPANISH			C3.0 CR	
	PREREQ SPAN 140A				
1	08.30-09.20	T F	MAIN	207	
	08.30-09.20	W	H EC	102	
	08.30-09.20	M	WHLR	5	
2	11.30-12.20	M W F	COMM	111	
	11.30-12.20	T	WHLR	5	
140C	ELEMENTARY SPANISH			C3.0 CR	
	PREREQ SPAN 140B				
1	08.30-09.20	M W F	MAIN	304A	
	08.30-09.20	T	WHLR	5	



2	08.30-09.20	T TH	H EC	201
	09.30-10.20	T	H EC	118
	09.30-10.20	TH	WHLR	5
3	08.30-09.20	T TH	TECH A	210
	09.30-10.20	T	TECH A	308
	09.30-10.20	TH	WHLR	5
4	01.30-02.20	M W F	WHLR	212
	01.30-02.20	T	WHLR	5

### General Studies Area E—Health and Physical Development

#### (GSE)

100A	RESTRICTED P E		C1.0 CR	
1	08.30-09.20	M WTH	ARENA 555	GREENE
101A	SWIMMING-BEGINNING		C1.0 CR	
1	09.30-10.20	M WTH	PULL P 11	ESSICK
2	10.30-11.20	M WTH	PULL P 11	ESSICK
3	11.30-12.20	M WTH	PULL P 11	ESSICK
102	PHYSICAL FITNESS		C1.0 CR	
1	07.30-08.20	M W	PULL 102	BELL
	01.30-02.20	T	LAWSON 141	GOOD
2	07.30-08.20	T TH	ARENA 102	BELL
	01.30-02.20	T	LAWSON 141	GOOD
3	08.30-09.20	M TH	ARENA 555	LONG
	01.30-02.20	T	LAWSON 141	GOOD
4	11.30-12.20	T TH	ARENA 555	JONES
	01.30-02.20	T	LAWSON 141	GOOD
5	01.30-02.20	M TH	ARENA 555	JONES
	01.30-02.20	T	LAWSON 141	GOOD
104B	ACTIVITY-BADMINTON		C1.0 CR	
1	07.30-08.20	M WTH	ARENA 555	MEADE
2	08.30-09.20	M WTH	ARENA 555	MEADE
104C	ACTIVITY-BOWLING		C1.0 CR	
1	10.30-11.20	MT TH	U CTR 48	HARTZOG
2	11.30-12.20	MT TH	U CTR 48	HARTZOG
104E	ACTIVITY-GOLF		C1.0 CR	
1	09.30-10.20	M WTH	ARENA 555	CKITA
2	10.30-11.20	M WTH	ARENA 555	FOLDER
3	11.30-12.20	M WTH	ARENA 555	FOLDER
4	12.30-01.20	M WTH	ARENA 555	BOLICK
5	01.30-03.00	TH	ARENA 555	JONES
6	01.30-04.30	TH	ARENA 555	BOLICK
STUDENTS FURNISH OWN CLUBS + TRANSPORTATION + FEE REQ				
104F	ACTIVITY-TENNIS		C1.0 CR	
1	07.30-09.00	T TH	ARENA 555	LEFEVRE
2	08.30-10.00	M W	ARENA 555	LUTZ
3	09.30-10.20	M WTH	ARENA 555	LUTZ
4	10.30-11.20	MT TH	ARENA 555	BOLICK
5	11.30-12.20	MT TH	ARENA 555	IUBELT
6	12.30-01.20	MT TH	ARENA 555	IUBELT
104I	ACTIVITY-VOLLEYBALL		C1.0 CR	
1	06.00-07.00 PM	T F	GRASSY 100	WILKINSON
RESTRICTED TO LITTLE GRASSY STUDENTS ONLY				
104J	ACTIVITY-SCFTBALL		C1.0 CR	
1	08.30-09.20	M WTH	ARENA 555	MARTIN
2	09.30-10.20	M WTH	ARENA 555	MARTIN
104N	ACTIVITY-CROSS COUN		C1.0 CR	
1	07.00-08.00 PM	T F	GRASSY 100	WILKINSON
RESTRICTED TO LITTLE GRASSY STUDENTS ONLY				
104X	ACTIVITY-HANDBALL		C1.0 CR	
1	08.30-09.20	M WTH	ARENA 555	REESE
2	09.30-10.20	M WTH	ARENA 555	REESE
3	10.30-11.20	M WTH	ARENA 555	REESE
111A	SWIMMING-BEGINNING		C1.0 CR	
1	07.30-09.20	T TH	GYM 114	CCCER
2	07.30-09.20	M W	GYM 114	CCCER

3	12.30-02.20	T TH	GYM	114	CCCPER
111B	SWIMMING-INTERMED		C1.0 CR		
1	08.30-09.20	M W F	PULL P	11	CCCPER
	PREREQ - GSE 111A CR EQUIVALENT				
2	12.30-01.20	M W F	PULL P	11	CCCPER
112	EXERCISE FOR FITNESS		C1.0 CR		
1	10.30-11.20	M W F	GYM	207	BRECHTELSBAUER
2	11.30-12.20	M W F	GYM	207	BRECHTELSBAUER
113C	DANCE-BEG CONTEMP		C1.0 CR		
1	07.30-08.20	T TH F	GYM	208	CAKAK
2	08.30-09.20	T TH F	GYM	208	CAKAK
114A	ACTIVITY-ARCHERY		C1.0 CR		
1	11.30-01.20	T TH	GYM	208	COTTEN
114D	ACTIVITY-BOWLING		C1.0 CR		
1	09.30-10.20	M W F	U CTR	48	
	FEE REQUIRED				
114E	ACTIVITY-GOLF		C1.0 CR		
1	07.30-08.20	M W F	GYM	208	BRECHTELSBAUER
2	09.30-11.20	T TH	GYM	207	BRECHTELSBAUER
3	10.30-11.20	M W F	GYM	208	PUHL
4	01.30-02.20	M W F	GYM	114	BRECHTELSBAUER
5	01.30-03.20	T TH	GYM	114	PUHL
114F	ACTIVITY-TENNIS		C1.0 CR		
1	07.30-09.20	T TH	GYM	114	COTTEN
2	07.30-09.20	M W	GYM	114	COTTEN
3	09.30-11.20	T TH	GYM	114	COTTEN
4	10.30-12.20	T TH	GYM	114	CCCPER
5	11.30-01.20	T TH	GYM	114	
6	12.30-02.20	M W	GYM	207	
114M	ACTIVITY-FENCING		C1.0 CR		
1	12.30-01.20	M W F	GYM	114	COTTEN
2C1	HEALTHFUL LIVING		C3.0 CR		
1	07.30-08.20	MT TH	TECH D	131	
2	07.30-08.20	M	COMM	116	
	07.30-08.20	T TH	TECH A	22C	
3	08.30-09.20	M W F	AG	168	
4	08.30-09.20	M W F	TECH A	222	
5	08.30-09.20	M W F	COMM	12C	
6	08.30-09.20	M W F	H EC	201	
7	09.30-10.20	T TH	TECH A	222	
	09.30-10.20	F	ARENA	119	
8	10.30-11.20	MT TH	AG	224	
9	10.30-11.20	M W F	COMM	12C	
10	10.30-11.20	M W F	LAWSON	231	
11	10.30-11.20	M W	TECH A	31C	
	10.30-11.20	F	ARENA	121	
12	10.30-11.20	M W F	H EC	201	
13	11.30-12.20	M W F	AG	224	
14	11.30-12.20	TWTH	TECH A	308	
15	11.30-12.20	M W F	TECH A	222	
16	11.30-12.20	M W F	LAWSON	101	
17	11.30-12.20	M W F	H EC	201	
18	12.30-01.20	M W F	ARENA	119	
19	01.30-02.20	TH F	ARENA	121	
20	02.30-03.20	M WTH	ARENA	121	
21	05.30-08.20	M	GRASSY	10C	

## SCHEDULE OF DEPARTMENTAL COURSES

COURSE & SECTION NO.	TITLE & HOURS	DAYS	BLDG. & RM.	INSTRUCTOR
<b>Accounting (ACCT)</b>				
250	ACCT FUNDAMENTALS		C4.0 CR	
1	02.30-03.20	MTWTF	CL 12	
251A	FINANCIAL ACCT		C4.C CR	
	PREREQ SOPHOMORE STANDING			
1	08.30-09.20	MT TFF	CL 12	
2	10.30-11.20	MT TFF	CL 12	
251B	FINANCIAL ACCT		C4.C CR	
	PREREQ ACCT 251A			
1	10.30-11.20	MT TFF	CL 18	
2	11.30-12.20	MT TFF	CL 12	
261	MANAGEMENT ACCT		C4.0 CR	
	PREREQ ACCT 251B AND MATH 111A			
1	07.30-08.20	MT TFF	CL 12	
2	09.30-10.20	MT TFF	CL 12	
331	TAX ACCOUNTING		C4.0 CR	
	PREREQ ACCT 261			
1	09.30-10.20	MT TFF	CL 18	
351A	INTERMEDIATE ACCT		C4.0 CR	
	PREREQ ACCT 261			
1	11.30-12.20	MTWTF	CL 18	
453	ADVANCED ACCOUNTING		C4.0 CR	
	PREREQ ACCT 351A,B			
1	08.30-09.20	MTWTF	CL 18	
456	AUDITING		C4.C CR	
	PREREQ ACCT 331, 341, AND 351A,B			
1	07.30-08.20	MT TFF	CL 18	
459	INTERNSHIP IN ACCT		C4.0 CR	
	PREREQ CONSENT OF INTERNSHIP COMMITTEE			
1	TO BE ARRANGED			
<b>Agricultural Industries (AG I)</b>				
204	INTRO AG ECONOMICS		C4.C CR	
1	07.30-08.20	MTWTF	AG 168	
310	GENERAL AGRICULTURE		C4.C CR	
1*	08.30-09.20	MT TFF	AG 225	
	07.30-09.20	W	AG 225	
354	AGRIC MARKETING		C3.0 CR	
	PREREQ GSB 211A			
1	09.30-10.20	M W F	AG 225	SOLVERSON
373	FARM POWER AND MACH		05.0 CR	
	PREREQ MATH 111A OR EQUIV			
1	07.30-08.20	MT TFF	0831 225	PATERSOON
	07.30-09.20	W F	0831 101	PATERSOON

2	07.30-08.20	MT TH	C831	225	PATERSCN
	09.30-11.20	W F	C831	101	PATERSCN
390	SPEC STLD AG I	01.C TC C6.0	CR		
	PREREG	CONSENT OF DEPT CHAIRMAN			
1	TC BE ARRANGED				
485	PRIN-PHIL VO TEC ED		C3.0 CR		
	PREREG	STUDENT TEACHING CR	CONSENT OF DEPARTMENT		
1	08.30-10.20	MTWTF	TECH D	130	
	JUNE 23 - JULY 11				
512	AG OCCUP INTERNSHIP		C3.0 TC C6.0 CR		
	PREREG	AG I 312B CR	CONSENT OF DEPT CHAIRMAN		
1	09.00-12.00	MTWTF	AG	155	
	12.00-04.00	MTWTF	AG	155	
	JUNE 23 - JULY 18				
2	09.00-12.00	MTWTF	AG	155	
	12.00-04.00	MTWTF	AG	155	
	AUG 4 - AUG 29				
520	READINGS		C1.0 TC C6.0 CR		
1	TC BE ARRANGED				
525	INTER VCC COOP ED		C3.0 CR		
	PREREG	STUDENT TEACHING			
1	10.30-12.20	MTWTF	TECH D	130	
	JUN 23 - JULY 11				
554	ADV AGRI MARKETING		C4.0 CR		
	PREREG	12 HRS CR EGLIV IN ECCN CR	AG ECCN		
1	02.30-04.20	MTWTF	AG	214	
	JUNE 23 - JULY 18				
575	RESEARCH		C1.0 TC C6.0 CR		
1	TC BE ARRANGED				
581	SEMINAR		C1.0 TC C6.0 CR		
1	12.30-02.20	MTWTF	AG	214	
	JUNE 23 - JULY 18				
599	THESIS		C1.0 TC C9.0 CR		
1	TC BE ARRANGED				

### Animal Industries (ANI)

319	HORSES		C3.0 CR		
	PREREG	AN I 315 CR	CONSENT OF INSTR		
1	07.30-08.20	M W F	AG	116	KAMMLACE
337	ANIMAL HYGIENE		C4.0 CR		
	PREREG	AN I 105 CR 125 CR 231			
1	08.30-09.20	MTW	AG	116	STRACK LOUIS E
	08.30-09.20	TH	AG	166	
390	SPEC STLD AN I		C1.0 TC C6.0 CR		
	PREREG	JR CR SR	STANDING AND CONSENT OF DEPT CHAIRMAN		
1	TC BE ARRANGED				
520	READINGS IN AN INC		C1.0 TC C6.0 CR		
1	TC BE ARRANGED				
565	ADV SWINE PRCD.		C4.0 CR		
	PREREG	AN I 465			
1	07.30-09.20	MTW F	AG	120	BURNSIDE + MILLER
	07.30-09.20	TH	AG	120	
575	INDIVIDUAL RESEARCH		C1.0 TC C6.0 CR		
1	TC BE ARRANGED				
579	ANIMAL BEHAVIOR		C4.0 CR		
	PREREG	CONSENT OF INSTR			
1	02.30-03.20	T TH	WHAM	305	WARING
	12.30-04.20	W	LS I	204	
599	THESIS		C1.0 TC C9.0 CR		
1	TC BE ARRANGED				

### Anthropology (ANTH)

275C	INDIV STLDY-GENERAL		C2.0 TC 18.0 CR		
	PREREG	CONSENT OF DEPT			



1	TC BE ARRANGED				
303	OLD WORLD PREHIST			C3.C CR	
	PREREQ	GSB 102A	CR ANTH 275C		
1	11.30-12.20	M W F	F EC	106	MULLER J
401	LANGUAGE IN CULTURE			C4.C CR	
	PREREQ	GSB 102A	CR ANTH 275C		
1	08.30-10.20	T TH	F EC	106	MARING J
413	INTRO TC GEN LING			C4.C CR	
	PREREQ	GSB 102A	CR ANTH 275C		
1	09.30-10.20	M W F	F EC	106	MARING J
441	COMPARATIVE ECCN			C3.C CR	
	PREREQ	GSB 102A-4	CR ANTH 275D-4		
1	08.30-09.20	M W F	F EC	106	WALKER M
483	INDIV STUDY IN ANTH			C1.C TC 18.0 CR	
	PREREQ	GSB 102A	CR ANTH 275C		
1	TC BE ARRANGED				
582	PRCB-ARCHAEOLOGY			C1.C TC 27.0 CR	
	PREREQ	CONSENT OF DEPT			
1	TC BE ARRANGED				
584	PRCB-CULTURAL ANTH			C1.C TC 27.0 CR	
1	TC BE ARRANGED				
585	READINGS IN ANTH			C1.C TC 27.0 CR	
1	TC BE ARRANGED				
597	FIELDWRK IN ANTH			C1.C TC 27.0 CR	
1	TC BE ARRANGED				
599	THESIS			C1.0 TC C9.C CR	
1	TC BE ARRANGED				
600	DISSERTATION			C1.C TC 48.0 CR	
1	TC BE ARRANGED				

### Applied Science (AP S)

300	UNIV PHYSICS IV			C5.C CR	
	PREREQ	PHYS 111, 206,	CR 211		
1	10.30-11.20	MTW F	W-FAM	319	
	11.30-12.20	T	CL	328	
	01.30-03.20	TH	PHY SC	404	
307	PROBLEMS IN TECH			C5.0 CR	
	PREREQ	MATH 111A+B,	CR EQUIVALENT		
1	10.30-11.20	MTWTF	TECH A	208	
430	SPECIAL PROBLEMS			C2.C TC C8.0 CR	
	PREREQ	CONSENT OF COORDINATOR			
1	TC BE ARRANGED				
570	SPECIAL INVESTIGAT			C2.C TC C6.C CR	
1	TC BE ARRANGED				
599	THESIS			C1.C TC C9.C CR	
1	TC BE ARRANGED				

### Art (ART)

100A	SCULPTURE-CRAFTS			C4.C CR	
1	07.30-09.20	M W F	ALLYN	112	BOYSEN
100B	CRAFTS-SCULPTURE			C4.C CR	
1	09.30-11.20	M W F	ALLYN	112	BOYSEN
100C	PAINTING-GRAPHICS			C4.0 CR	
1	07.30-09.20	M W F	ALLYN	202	CNKEN
100D	GRAPHICS-DRAWING			C4.C CR	
1	01.30-03.20	M W F	ALLYN	106	KOLDEN
100E	DRAWING-PAINTING			C4.C CR	
1	07.30-10.20	T TH	ALLYN	202	WILDER
200A	SCULPTURE			C4.0 CR	
	PREREQ	ART 100(ABCDE)			
1	TC BE ARRANGED				WALSH
200B	DRAWING			C4.C CR	
	PREREQ	ART 100(ABCDE)			
1	01.30-03.20	M W F	ALLYN	202	BOYSEN

2000	PAINTING			C4.0	CR	
	PREREQ	ART 100(ABCEE)				
1	10.30-11.20	T TH	ALLYN	202	WILDER	
225B	INTRO TO ART HIST			C3.0	CR	
1	11.30-12.20	M W F	LAWSON	141	KURTZ	
302	POTTERY			C4.0	TC 12.0	CR
1	09.30-11.20	M W F	ALLYN	5	VERGETTE	
307	THEORY+PHIL ART ED			C3.0	CR	
1*	10.30-11.20	MTWTF	PULL I	105	ABRAHAMSON	
320	ADVANCED PAINTING			C4.0	TC 12.0	CR
	PREREQ	ART 100, ART 200				
1	11.30-11.20	M W F	ALLYN	202	ENKEN	
332	JEWEL + SILVERSMITH			C4.0	TC 12.0	CR
1	08.30-11.20	T TH	ALLYN	11	KINGTON	
341	DRAWING			C4.0	TC 12.0	CR
1	09.30-11.20	M W F	ALLYN	202	KOLDEN	
358	PRINTS			C4.0	TC 12.0	CR
1	07.30-09.20	M W F	ALLYN	211	KOLDEN	
385	WEAVING			C4.0	TC 12.0	CR
1	07.30-09.20	M W F	07C1	101	GINSBERG	
393	SCULPTURE			C4.0	TC 12.0	CR
	PREREQ	ART 200-12 FRS				
1	TC BE ARRANGED				SULLIVAN	
406	STUDIO IN PAINTING			C2.0	TO 12.0	CR
1	TC BE ARRANGED				BERNSTEIN	
410	RESEARCH IN PRINTS			C2.0	TO 12.0	CR
1	TC BE ARRANGED				FINK	
426	STUDIO IN POTTERY			C2.0	TO 12.0	CR
1	TC BE ARRANGED				VERGETTE	
436	STUDIO METAL CONSTR			C2.0	TO 12.0	CR
1	TC BE ARRANGED				KINGTON	
440	RESEARCH IN WEAVING			C2.0	TO 12.0	CR
1	TC BE ARRANGED				GINSBURG	
441	STUDIO IN DRAWING			C2.0	TO C6.0	CR
	PREREQ	ART 100, ART 200, + ART 341				
1	TC BE ARRANGED				FINK	
466	STUDIO IN ART ED			C2.0	TO 12.0	CR
1*	07.30-10.20	T TH	PULL I	105	ABRAHAMSON	
493	ADVANCED SCULPTURE			C2.0	TC 12.0	CR
	PREREQ	ART 393-12 FRS				
1	TC BE ARRANGED				SULLIVAN	
501	SEMINAR PAINTING			C2.0	TO 12.0	CR
1	TC BE ARRANGED				BERNSTEIN	
502	SEM IN SCULPTURE			C2.0	TO 12.0	CR
	PREREQ	CONSENT OF INSTRUCTOR				
1	TC BE ARRANGED				SULLIVAN	
511	SEMINAR IN PRINTS			C2.0	TO 12.0	CR
	PREREQ	CONSENT OF INSTRUCTOR				
1	TC BE ARRANGED				FINK	
526	RESEARCH POTTERY			C2.0	TO 12.0	CR
1	TC BE ARRANGED				VERGETTE	
536	RESEARCH METAL CONS			C2.0	TO 12.0	CR
1	TC BE ARRANGED				KINGTON	
540	SEMINAR IN WEAVING			C2.0	TC 12.0	CR
1	TC BE ARRANGED				GINSBURG	
566	RESEARCH ART EDUC			C2.0	TO 12.0	CR
1*	07.30-09.20	M W F	PULL I	105	ABRAHAMSON	
571	READ ART HISTORY			C2.0	TC 05.0	CR
	PREREQ	GRAD STANDING + CONSENT OF INSTRUCTOR				
1	TC BE ARRANGED				KURTZ	
599	THESIS			C5.0	TO C9.0	CR
1	TC BE ARRANGED					

## Botany (BOT)

BCT		
300	MORPH NCN-VAS PLANT	C4.0 CR
	PREREQ	GSA 201B

1	02.30-03.20	M W F	WFAM	306	KAEISER
	02.30-04.20	T	0843	104	KAEISER
2	02.30-03.20	M W F	WFAM	306	KAEISER
	02.30-04.20	TH	0843	104	KAEISER
301	MORPH VAS PLANTS			C4.0	CR
	PREREQ	GSA 201E			
1	08.30-09.20	T TH	WFAM	202	MATTEN
	08.30-10.20	M W	0842	101	
2	08.30-09.20	T TH	WFAM	202	MATTEN
	10.30-12.20	M W	0842	101	
320	PLANT PHYSIOLOGY			C5.0	CR
	PREREQ	GSA 201E, CHEM 350	CR MINOR IN CHEM		
1	07.30-08.20	M W F	COMM	111	SCHMID
	07.30-09.20	T TH	LS I	311	SCHMID
2	07.30-08.20	M W F	COMM	111	SCHMID
	09.30-11.20	T TH	LS I	311	SCHMID
390	READINGS - BOTANY			C2.0 TO C4.0	CR
	PREREQ	BOT MAJOR AND CONSENT OF INSTR			
1	TO BE ARRANGED				
391	SPEC PRCB IN BOTANY			C2.0 TO C5.0	CR
	PREREQ	BOT MAJOR AND CONSENT OF DEPT			
1	TO BE ARRANGED				
405	MYCOCLOGY			C5.0	CR
	PREREQ	BOT 300			
1	08.30-09.20	M W F	LS I	323	GRAY
	08.30-10.20	T TH	LS I	307	GRAY
451	INTRO FLORISTICS			C4.0	CR
	PREREQ	CONSENT OF INSTR			
1	07.30-08.20	W	0842	106	ANDERSON
	07.30-03.20	F	0842	106	ANDERSON
500	BIOSYST PL ANATOMY			C5.0	CR
	PREREQ	BOT 400, AND BOT 412 AND 449	ARE RECOMMENDED		
1	08.30-09.20	M W	LS I	313	MATTEN
	09.20-12.20	M W	LS I	313	MATTEN
551	MISS FLORA UPLAND			C4.0	CR
	PREREQ	CONSENT OF INSTR			
1	08.30-04.20	T	LS I	101	MCFLENBRCK
	12.30-01.20	M	0842	101	MCFLENBRCK
552	MISS FLORA AQUATIC			C4.0	CR
	PREREQ	CONSENT OF INSTR			
1	08.30-04.20	TH	0842	101	TINDALL
570	READINGS - BOTANY			C2.0 TO C5.0	CR
1	TO BE ARRANGED				
591	RESEARCH			C3.0 TO C9.0	CR
	PREREQ	CONSENT OF DEPT			
1	TO BE ARRANGED				
599	THESIS			C3.0 TO C9.0	CR
1	TO BE ARRANGED				
600	DISSERTATION			C1.0 TO C6.0	CR
1	TO BE ARRANGED				

### Business Administration (B A)

502	BUSINESS + SOCIETY			C4.0	CR
1	01.30-03.20	W F	WFAM	112	LOWRY
521	BUSINESS COND ANAL			C4.0	CR
	PREREQ	ENROLLMENT IN MBA PROGRAM	OR CONSENT OF INSTRUCTOR		
1	10.30-12.20	T TH	CL	24	FENSTERMAKER
530	FINANCIAL MGT			C4.0	CR
1	08.30-10.20	M TH	F EC	102	WINN
549	SEMINAR IN MGT			C4.0	CR
	PREREQ	ENROLLMENT IN MBA	OR CONSENT OF INSTRUCTOR		
1	08.30-10.20	T F	WFAM	301B	TAYLOR
550	MARKETING MGT			C4.0	CR
	PREREQ	ENROLLMENT IN MBA PROGRAM	OR CONSENT OF INSTRUCTOR		
1	10.30-12.20	M W	F EC	24	ANDERSON
590	INDEPENDENT STUDY			C4.0	CR
	PREREQ	ENROLLMENT IN MBA PROGRAM	OR CONSENT OF INSTRUCTOR		

1	TC BE ARRANGED			FINDERSMAN
598	BUSINESS POLICIES		C4.0 CR	
	PREREQ ENROLLMENT IN MBA PROGRAM OR CONSENT OF INSTRUCTOR			
1	01.30-03.20	T TH	CCM	122 HUNT
599	THESIS		C4.0 TC C8.0 CR	
	PREREQ ENROLLMENT IN MBA PROGRAM OR CONSENT OF INSTRUCTOR			
1	TC BE ARRANGED			FINDERSMAN

## Chemistry (CHEM)

115	INTRC GENERAL CHEM			C5.0 CR
1	08.30-09.20	M W F	PARK	124
	07.30-08.20		F	PHY SC 218
	07.30-09.20	T TH	PHY SC	102
2	08.30-09.20	M W F	PARK	124
	07.30-08.20		F	PHY SC 218
	07.30-09.20	T TH	PHY SC	104
3	08.30-09.20	M W F	PARK	124
	07.30-08.20		F	PHY SC 218
	07.30-09.20	T TH	PHY SC	106
235	GEN CLANT ANALYSIS			C5.0 CR
	PREREQ CHEM 111C + KNOWLEDGE OF LOGARITHMS			
1	12.30-01.20	M W F	PHY SC	116
	12.30-03.20	T TH	PHY SC	408
2	12.30-01.20	M W F	PHY SC	116
	12.30-03.20	T TH	PHY SC	409
240	ORGANIC CHEMISTRY			C4.0 CR
	PREREQ CHEM 11C CR 111B			
1	11.30-12.20	M W T F	PHY SC	116
	09.30-12.20	T	PHY SC	109
2	11.30-12.20	M W T F	PHY SC	116
	12.30-03.20	T	PHY SC	109
305B	ORG CHEM-PRE PRCF			C5.0 CR
	PREREQ CHEM 305A			
1	11.30-12.20	M W F	PHY SC	218
	12.30-03.20	T TH	PHY SC	203
2	11.30-12.20	M W F	PHY SC	218
	09.30-12.20	T TH	PHY SC	203
432A	INST ANAL MEASMTS			C4.0 CR
	PREREQ CHEM 461B (MAY BE TAKEN CONCURRENTLY)			
1	07.30-08.20	M W	PHY SC	218
	07.30-12.20	T	PHY SC	316
2	07.30-08.20	M W	PHY SC	218
	07.30-12.20	TH	PHY SC	316
446	QUAL ORGANIC ANALY			C4.0 CR
	PREREQ CHEM 305B CR 341C + CHEM 461C			
1	07.30-08.20	T TH	PHY SC	218
	08.30-11.20	T TH	PHY SC	205
460	PRIN PHYSICAL CHEM			C5.0 CR
	PREREQ CHEM 235, 305B CR 341C + 1 YR CF PHYS CR CONSENT			
1	10.30-11.20	M W F	PHY SC	116
	08.30-11.20	T TH	PHY SC	105
456A	CHEM PRCB ANALY			01.0 TC 12.0 CR
	PREREQ SENICR STAND MAJ IN CHEM WITH 4 PT AV CR CONS CF INS			
1	TC BE ARRANGED			
496B	CHEM PRCB BIOCHEM			01.0 TO 12.0 CR
	PREREQ SENICR STAND MAJ IN CHEM WITH 4 PT AV CR CONS CF INS			
1	TC BE ARRANGED			
496C	CHEM PRCB INORGANIC			01.0 TO 12.0 CR
	PREREQ SENICR STAND MAJ IN CHEM WITH 4 PT AV CR CONS CF INS			
1	TC BE ARRANGED			
496D	CHEM PRCB ORGANIC			01.0 TO 12.0 CR
	PREREQ SENICR STAND MAJ IN CHEM WITH 4 PT AV CR CONS CF INS			
1	TC BE ARRANGED			
496E	CHEM PRCB PHYSICAL			01.0 TO 12.0 CR
	PREREQ SENICR STAND MAJ IN CHEM WITH 4 PT AV CR CONS CF INS			
1	TC BE APRANGED			



569 ADV TOPICS-PHYSICAL 02.0 TO 20.0 CR  
 PREREQ CHEM 561  
 1 09.30-10.20 M W F PHY SC 116  
 594A SP READ-CHEM ANALY 02.0 TO 15.0 CR  
 PREREQ 24 HRS CF 500 CHEM AND CCNSENT CF DIV  
 1 TC BE ARRANGED  
 594B SP READ-CHEM BIC 02.0 TO 15.0 CR  
 PREREQ 24 HRS CF 500 CHEM AND CCNSENT CF DIV  
 1 TC BE ARRANGED  
 594C SP READ-CHEM INCRG 02.0 TO 15.0 CR  
 PREREQ 24 HRS CF 500 CHEM AND CCNSENT CF DIV  
 1 TC BE ARRANGED  
 594D SP READ-CHEM CRGAN 02.0 TO 15.0 CR  
 PREREQ 24 HRS CF 500 CHEM AND CCNSENT CF DIV  
 1 TC BE ARRANGED  
 594E SP READ-CHEM PHYS 02.0 TO 15.0 CR  
 PREREQ 24 HRS CF 500 CHEM AND CCNSENT CF DIV  
 1 TC BE ARRANGED  
 596A ADV CHEM PROCB-ANAL 03.0 TO 20.0 CR  
 PREREQ CCNSENT OF DEPT CHAIRMAN  
 1 TC BE ARRANGED  
 596B ADV CHEM PROCB-BIC 03.0 TO 20.0 CR  
 PREREQ CCNSENT OF DEPT CHAIRMAN  
 1 TC BE ARRANGED  
 596C ADV CHEM PROCB-INCRG 03.0 TO 20.0 CR  
 PREREQ CCNSENT OF DEPT CHAIRMAN  
 1 TC BE ARRANGED  
 596D ADV CHEM PROCB-CRGAN 03.0 TO 20.0 CR  
 PREREQ CCNSENT OF DEPT CHAIRMAN  
 1 TC BE ARRANGED  
 596E ADV CHEM PROCB-PHYS 03.0 TO 20.0 CR  
 PREREQ CCNSENT OF DEPT CHAIRMAN  
 1 TC BE ARRANGED  
 597A RES + THESIS-ANAL 03.0 TO 40.0 CR  
 PREREQ CCNSENT OF DEPT CHAIRMAN  
 1 TC BE ARRANGED  
 597B RES + THESIS-BIC 03.0 TO 40.0 CR  
 PREREQ CCNSENT OF DEPT CHAIRMAN  
 1 TC BE ARRANGED  
 597C RES + THESIS-INCRG 03.0 TO 40.0 CR  
 PREREQ CCNSENT OF DEPT CHAIRMAN  
 1 TC BE ARRANGED  
 597D RES + THESIS-CRGAN 03.0 TO 40.0 CR  
 PREREQ CCNSENT OF DEPT CHAIRMAN  
 1 TC BE ARRANGED  
 597E RES + THESIS-PHYS 03.0 TO 40.0 CR  
 PREREQ CCNSENT OF DEPT CHAIRMAN  
 1 TC BE ARRANGED  
 598A RES-DCCTCR ANALY 03.0 TO 48.0 CR  
 PREREQ M A DEGREE CR EGLIV  
 1 TC BE ARRANGED  
 598B RES-DCCTCR BICCHEM 03.0 TO 48.0 CR  
 PREREQ M A DEGREE CR EGLIV  
 1 TC BE ARRANGED  
 598C RES-DCCTCR INCRGAN 03.0 TO 48.0 CR  
 PREREQ M A DEGREE CR EGLIV  
 1 TC BE ARRANGED  
 598D RES-DCCTCR ORGANIC 03.0 TO 48.0 CR  
 PREREQ M A DEGREE CR EGLIV  
 1 TC BE ARRANGED  
 598E RES-DCCTCR PHYS 03.0 TO 48.0 CR  
 PREREQ M A DEGREE CR EGLIV  
 1 TC BE ARRANGED  
 600A DISSERT ANALYTICAL 03.0 TO 48.0 CR  
 PREREQ ADMISSION TC PH D CANDIDACY  
 1 TC BE ARRANGED

VAN ATTA

600B DISSERT BIOCHEM C3.0 TO 48.0 CR  
 PREREQ ADMISSION TO PH D CANDIDACY  
 1 TC BE ARRANGED  
 600C DISSERT INORGANIC C3.0 TO 48.0 CR  
 PREREQ ADMISSION TO PH D CANDIDACY  
 1 TC BE ARRANGED  
 600D DISSERT ORGANIC C3.0 TO 48.0 CR  
 PREREQ ADMISSION TO PH D CANDIDACY  
 1 TC BE ARRANGED  
 600E DISSERT - PHYSICAL C3.0 TO 48.0 CR  
 PREREQ ADMISSION TO PH D CANDIDACY  
 1 TC BE ARRANGED

### Clothing and Textiles (C & T)

127A CLOTHING SELECTION C2.0 CR  
 1 01.30-02.20 T TH F EC 14CE RIDLEY  
 127B CLOTHING CONSTRUCT C2.0 CR  
 1 09.30-11.20 T TH F EC 31C  
 2 01.30-03.20 M W F EC 31C RIDLEY  
 131 APPLIED DESIGN C3.0 CR  
 1 11.30-12.20 M W F EC 304 GREENE  
 11.30-01.20 T F EC 304  
 2 11.30-12.20 M W F EC 304 GREENE  
 11.30-01.20 TH F EC 304  
 233 PATT DES + CLO CONS C3.0 CR  
 PREREQ C+T 127B CR CONSENT CF CHAIRMAN  
 1 09.30-11.20 M W F EC 31C RIDLEY  
 327 HM FRN + INTERIORS C3.0 CR  
 PREREQ 131, EQUIVALENT, CR CONSENT CF INSTRUCTOR  
 1 02.30-04.20 T TH F EC 304 GREENE  
 371 FIELD EXPERIENCE C6.0 CR  
 PREREQ CONSENT OF CHAIRMAN  
 1 TC BE ARRANGED BERRY + RIDLEY  
 432 WORKSHOP C4.0 CR  
 PREREQ ICC CR CONSENT CF CHAIRMAN  
 1\* 11.30-01.20 MTWTF F EC 303 BERRY  
 11.30-12.20 F F EC 303  
 474 ADVANCED TEXTILES C4.0 CR  
 PREREQ C+T 304 OR CONSENT CF INSTRUCTOR  
 1\* 09.30-11.20 MTWTF F EC 301 PADGETT  
 572 SPECIAL PROBLEMS C2.0 TO C8.0 CR  
 1\* TC BE ARRANGED BERRY + PADGETT  
 599 THESIS C5.0 TO C9.0 CR  
 1\* TC BE ARRANGED BERRY + PADGETT

### Design (DES)

490F STUDIO P-S DESIGN C2.0 TO 12.0 CR  
 1 TC BE ARRANGED  
 490G STUDIO-VISUAL DES C2.0 TO 12.0 CR  
 1 TC BE ARRANGED  
 550 FIELD STUDY DESIGN C2.0 TO 16.0 CR  
 1 TC BE ARRANGED  
 599 THESIS C3.0 TO C9.0 CR  
 1 TC BE ARRANGED

### Economics (ECON)

214 ECONOMICS-MACRO C4.0 CR  
 1 10.30-11.20 M W T F F WHAM 302  
 2 03.30-04.20 MT T F F LAWSON 221  
 215 ECONOMICS-MICRO C4.0 CR  
 PREREQ ECON 214  
 1 07.30-08.20 T W T F F WHAM 302  
 2 01.30-02.20 T W T F F LAWSON 221  
 301 ECONOMIC READINGS C1.0 TO C6.0 CR  
 PREREQ CONSET CF CHAIRMAN AND INSTRUCTOR

1	TC BE ARRANGED				
308	ECCN-BUS STAT I			C4.0 CR	
	PREREC GSC 110				
1	03.30-04.20	TWTF	WHAM	201	BUNGER
315	MONEY AND BANKING I			C4.0 CR	
	PREREC ECCN 215	CR	CONSENT OF INSTRUCTOR		
1	12.30-01.20	MTWTF	WHAM	206	LAYER
330	PUBLIC FINANCE			C4.0 CR	
	PREREC ECCN 211A, CR 215,	CR	CONSENT OF INSTRUCTOR		
1	10.30-11.20	MTW F	CCMM	111	FRYMAN
416	MONEY + BANKING II			C4.0 CR	
	PREREC ECCN 315				
1	08.30-09.20	MTWTF	F EC	104	BRUCKER
422	INTRO ECCN DEVELOP			C4.0 CR	
	PREREC ECCN 215				
1	11.30-12.20	TWTF	WHAM	319	FAITANI
429	INTERNATIONAL ECON			C4.0 CR	
	PREREC ECCN 215	CR	CONSENT OF INSTRUCTOR		
1	02.30-03.20	TWTF	WHAM	329	FAITANI
440	INTERMED MICRO THEO			C4.0 CR	
	PREREC 215	CR	CONSENT OF THE INSTRUCTOR		
1	07.30-08.20	MTWTF	CL	202	MARTINSEK
441	INTERMED MACRO TH			C4.0 CR	
	PREREC ECCN 214				
1	01.30-02.20	TWTF	CL	24	BUNGER
490	ECONOMIC EDUCATION			C4.0 CR	
1	08.30-11.20	MTWTF	WHAM	201	WIEGAND
	01.30-03.20	MTWTF	WHAM	201	
	AUG 11 - 22				
500	ECONOMIC SEMINAR			C4.0 TC C8.0 CR	
	PREREC CONSENT OF INSTR				
1	09.30-11.20	M W	CL	25	LAYER
2	09.30-11.20	T F	CL	25	STALON
501	ECONOMIC READINGS			C1.0 TC C5.0 CR	
	PREREC CONSENT OF CHAIRMAN				
1	TC BE ARRANGED				
502	READING IN RES ECCN			C1.0 TC C6.0 CR	
	PREREC CONSENT OF FORESTRY DEPT				
1	TC BE ARRANGED				
541	NATL INCOME THEORY			C4.0 CR	
	PREREC ECCN 441	CR	CONSENT OF INSTR		
1	02.30-03.20	MTWTF	WHAM	319	STALON
599	THESIS			C1.0 TC C9.0 CR	
1	TC BE ARRANGED				
600	DOCTORAL DISSERTAT			C1.0 TC 48.0 CR	
1	TC BE ARRANGED				

### Educational Administration and Foundations (EDAF)

355	PHILOSOPHY OF EDUC			C4.0 CR	
1	08.30-09.20	MTWTF	WHAM	112	
2	09.30-10.20	MTWTF	WHAM	112	
3	10.30-11.20	MT F	MAIN	210	
	10.30-11.20	W	WHAM	326	
4	11.30-12.20	MTWTF	WHAM	302	
5	11.30-12.20	MTWTF	LAHSON	201	
6	12.30-01.30	MTWTF	WHAM	302	
7	01.30-02.20	MTWTF	WHAM	206	
8	02.30-03.20	MTWTF	WHAM	210	
431	HIST OF EDUC IN U S			C4.0 CR	
1*	08.30-09.20	MTWTF	WHAM	329	VINCUR
432	EDUC + SOC FORCES			C4.0 CR	
1*	12.30-01.20	MTWTF	WHAM	201	FAWLEY
500	RESEARCH METHODS			C4.0 CR	
1*	07.30-08.20	MTWTF	WHAM	326	EACH
2*	09.30-10.20	MTWTF	WHAM	24	FALL

3*	12.30-01.20	MTWTF	WHAM	328	BACH
502	SEMINAR COMP EDUC		C4.0 CR		
1*	09.30-10.20	MTWTF	WHAM	205	LEAN
506	CURR REL AM CULTURE		04.0 CR		
	PREREQ	CONSENT OF INSTRUCTOR			
1*	01.30-02.20	MTWTF	WHAM	305	FALL
507A	20TH CENTURY + EDUC		C4.0 CR		
1*	09.30-10.20	MTWTF	WHAM	317	COUNTS
520A	LEGAL BASIS-AMER ED		C4.0 CR		
1*	10.30-11.20	MTWTF	WHAM	202	SASSE
524A	SCHL ADMINISTRATICN		C4.0 CR		
1*	08.30-09.20	MTWTF	WHAM	305	SASSE
524B	SCHL ADMINISTRATICN		C4.0 CR		
1*	08.30-09.20	MTWTF	WHAM	301A	STUCK
524C	SCHL ADMINISTRATICN		C4.0 CR		
1*	11.30-12.20	MTWTF	WHAM	305	
527	CURR-ISSU SCH ADMIN		C4.0 CR		
1	09.30-11.20	MTWTF	COMM	112	STUCK + SASSE
	01.30-03.20	MTWTF	COMM	112	
	AUGUST 11-22				
533	SCHOOCL BUILDINGS		C4.0 CR		
1*	08.30-09.20	MTWTF	WHAM	312	NEAL
534B	SCHOOCL BUSINESS ADM		C4.0 CR		
1*	09.30-10.20	MTWTF	WHAM	305	ELISS
536A	ADMINIST WORKSHCP		C3.0 CR		
1	01.30-04.20	MTWTF	WHAM	205	EWING
	JUNE 17-JULY 5				
554	CONTRAST PHIL IN ED		C4.0 CR		
1*	11.30-12.20	MTWTF	WHAM	208	LEAN
556A	SCHOOCL SUPERVISION		C4.0 CR		
1*	09.30-10.20	MTWTF	WHAM	303	ARMISTEAD
	09.30-10.20	F	WHAM	112	ARMISTEAD
556B	SEM-ED SUPERVISION		04.0 CR		
	PREREQ	556A			
1	08.30-09.20	MTWTF	WHAM	212	BRACEWELL
560	CURRICLLM		C4.0 CR		
1	01.30-04.20	MTWTF	WHAM	328	FISHBACK
	JULY 1-19				
563	SCHOOCL PUBLIC REL		C4.0 CR		
	PREREQ	CONSENT OF INSTRUCTOR			
1*	09.30-10.20	MTWTF	WHAM	328	NEAL
564	H S PRINCIPALSHIP		C4.0 CR		
1*	12.30-01.20	MTWTF	WHAM	303	
575A	IND RES CURRICULUM		01.0 TO C4.0 CR		
	PREREQ	500, APPROVAL OF DEPT ADVISOR + CONSENT OF INSTRUCT			
1	TO BE ARRANGED				
575B	IND RES SUPERVISION		01.0 TO C4.0 CR		
	PREREQ	500, APPROVAL OF DEPT ADVISOR + CONSENT OF INSTRUCT			
1	TO BE ARRANGED				
575C	IND RES BUILDINGS		01.0 TO C4.0 CR		
	PREREQ	500, APPROVAL OF DEPT ADVISOR + CONSENT OF INSTRUCT			
1	TO BE ARRANGED				
575D	IND RES FINANCE		01.0 TO C4.0 CR		
	PREREQ	500, APPROVAL OF DEPT ADVISOR + CONSENT OF INSTRUCT			
1	TO BE ARRANGED				
575E	IND RES SCHOOCL LAW		01.0 TO C4.0 CR		
	PREREQ	500, APPROVAL OF DEPT ADVISOR + CONSENT OF INSTRUCT			
1	TO BE ARRANGED				
575F	IND RES COMPAR EDUC		01.0 TO C4.0 CR		
	PREREQ	500, APPROVAL OF DEPT ADVISOR + CONSENT OF INSTRUCT			
1	TO BE ARRANGED				
575G	IND RES HIST EDUC		01.0 TO C4.0 CR		
	PREREQ	500, APPROVAL OF DEPT ADVISOR + CONSENT OF INSTRUCT			
1	TO BE ARRANGED				
575H	IND RES PHIL EDUC		01.0 TO C4.0 CR		
	PREREQ	500, APPROVAL OF DEPT ADVISOR + CONSENT OF INSTRUCT			



1 TC BE ARRANGED  
 575J IND RES ADMIN 01.0 TO 04.0 CR  
 PREREQ 500, APPROVAL OF DEPT ADVISOR + CONSENT OF INSTRUCT  
 1 TC BE ARRANGED  
 576A READINGS ADM-SLPV 01.0 TO 04.0 CR  
 PREREQ CONSENT OF DEPT CHAIRMAN AND INSTRUCTOR  
 1 TC BE ARRANGED  
 576B READINGS ADM-SLPV 01.0 TO 04.0 CR  
 PREREQ CONSENT OF DEPT CHAIRMAN AND INSTRUCTOR  
 1 TC BE ARRANGED  
 576C READINGS ADM-SUPV 01.0 TO 04.0 CR  
 PREREQ CONSENT OF DEPT CHAIRMAN AND INSTRUCTOR  
 1 TC BE ARRANGED  
 591 SEM-SCC + PHIL FOUN 02.0 CR  
 PREREQ ADVANCED STANDING  
 1 09.30-11.20 W WHAM 301A MCKENZIE  
 592 DOCT SEM CULT FOUND 04.0 CR  
 PREREQ 591  
 1\* 09.30-11.20 T TH WHAM 301A MCKENZIE  
 596 IND INVESTIGATION 05.0 TO 09.0 CR  
 1 TC BE ARRANGED  
 600 DISSERTATION 01.0 TO 48.0 CR  
 1 TC BE ARRANGED

### Elementary Education (ELED)

100 INTRC TC ELEM EDUC 03.0 CR  
 1 07.30-08.20 M W F WHAM 203 RANDCLPH  
 101 DEVEL RDING-LRN SKL 02.0 CR  
 1 10.30-11.20 Th F WHAM 307  
 2 11.30-12.20 M W F WHAM 301B  
 3 11.30-12.20 M W F WHAM 301A  
 4 01.30-02.20 M W F WHAM 112  
 5 02.30-03.20 M W F WHAM 137  
 6 03.30-04.20 M W F WHAM 301A  
 314 ELEM SCHCCL METHODS 04.0 CR  
 PREREQ GUID 305  
 1\* 08.30-09.20 MTWTF WHAM 206 RANDCLPH  
 2 11.30-12.20 MTWTF WHAM 203 ERCD  
 3\* 01.30-02.20 MTWTF WHAM 203 SLCAN  
 TCHR CORPS STUDENTS ONLY  
 316 KINDER PRIMARY METH 04.0 CR  
 PREREQ GUID 305  
 1\* 09.30-10.20 MTWTF WHAM 203 ZIMMEY  
 337 READING IN ELEM SCH 04.0 CR  
 PREREQ 314  
 1 09.30-10.20 MTWTH WHAM 21C RAGSCALE  
 2\* 10.30-11.20 MTWTF WHAM 203 ERCD  
 350 KIND PRI STUD TCH 04.0 TO 16.0 CR  
 1 TC BE ARRANGED  
 351 EL STUDENT TCH 04.0 TO 16.0 CR  
 1 TC BE ARRANGED  
 GENERAL  
 2 TC BE ARRANGED  
 ART  
 3 TC BE ARRANGED  
 E M F  
 4 TC BE ARRANGED  
 MUSIC  
 5 TC BE ARRANGED  
 P E  
 6 TC BE ARRANGED  
 P H  
 7 TC BE ARRANGED  
 SP C  
 8 TC BE ARRANGED  
 SP EC

375	READINGS IN EL ED	02.0 TC 03.0 CR			
1	TC BE ARRANGED				SLOAN
401	PROBLEMS IN READING	02.0 TC 04.0 CR			
1	12.30-02.20 MTWTF WHAM	210			RAGSCALE
	JUNE 18 - 28				
411	SEM - INSTRUCTION	02.0 TC 04.0 CR			
1*	02.30-03.20 MTWTF WHAM	203			SLCAN
	TCHR CCRPS STUDENTS ONLY				
413	CHILDRENS LIT	04.0 CR			
	PREREQ GUID 305				
1*	10.30-11.20 MTWTF WHAM	206			MCLAREN
2*	11.30-12.20 MTWTF WHAM	326			MCLAREN
415	IMPR ARITH ELEM SCH	02.0 TC 04.0 CR			
	PREREQ MATH 210 CR CONSENT OF INSTRUCTOR				
1*	10.30-11.20 MTWTF WHAM	208			PAIGE
431	ED FOR DISADV CHILD	02.0 TC 04.0 CR			
	PREREQ 337				
1*	03.30-04.20 M W F WHAM	203			SLCAN
	TCHR CCRPS STUDENTS ONLY				
433	WORKSHOP KIND PRI	04.0 CR			
1	08.30-11.20 MTWTF WHAM	201			BAKER
	JUNE 23 - JULY 11				
	RESTRICTED TO STUDENTS WHO HAVE HAD STUDT TEACHING				
441	WKSH-P-EL SCH SCI	04.0 CR			
1	12.30-02.20 MTWTF WHAM	205			NEWPCRT
	JULY 27 - AUG 22				
	RESTRICTED TO STUDENTS WHO HAVE HAD 314				
442	TEACH EL SCH SCI	04.0 CR			
1	07.30-08.20 MTWTF PULL	304			NEWPCRT
	RESTRICTED TO STUDENTS WHO HAVE HAD 314				
445	PAR INVOLVE IN EDLC	04.0 CR			
	PREREQ STUDENT TEACHING CR CONSENT OF INSTRUCTOR				
1*	07.30-08.20 MTWTF WHAM	201			ZIMMY
	ALTERNATE PREREQ 314				
490	ECON ED IN ELEM SCH	02.0 TO 03.0 CR			
1	08.30-11.20 MTWTF WHAM	201			
	01.30-03.20 MTWTF WHAM	201			
	MEETS AUGUST 11-22, CROSSLISTED WITH S ED + ECON				
503	NDEA READ INSTITUTE	09.0 CR			
1	08.30-04.30 MTWTF PULL	38			
	RESTRICTED TO INSTITUTE STUDENTS				
505	READING IN ELEM SCH	04.0 CR			
1*	08.30-09.20 MTWTF WHAM	203			BRGD
2*	09.30-10.20 MTWTF WHAM	114			
507	READINGS IN READING	02.0 TC 04.0 CR			
	PREREQ 505 AND CONSENT OF INSTRUCTOR				
1	TC BE ARRANGED				FILL
509	PRACTICUM IN READ	04.0 TC 08.0 CR			
	PREREQ 521A, B, AND C, AND CONSENT OF INSTRUCTOR				
1	TC BE ARRANGED				
515	PROB ARITH ELEM SCH	04.0 CR			
	PREREQ 415 CR CONSENT OF INSTRUCTOR				
1*	08.30-09.20 MTWTF WHAM	210			
518	SUP CF ST TEACH	02.0 CR			
1	07.30-08.20 MTWTF WHAM	208			CASEY
	JULY 14 - AUG 8				
2	07.30-08.20 PM MTWTF WHAM	208			CASEY
	JUNE 15 - JULY 11				
519	READINGS-ELEM MATH	02.0 TC 04.0 CR			
	PREREQ 415, 515				
1	TC BE ARRANGED				
520	DIAG ELEM MATH DISA	04.0 CR			
	PREREQ 515 CR CONCURRENT REGISTRATION				
1	TC BE ARRANGED				
521A	DIAG-CCR READ DISA	04.0 CR			
	PREREQ 505, CR CONCURRENT REGISTRATION, AND TEACHING EXPER				

1*	11.30-12.20	MTWTHF	WHAM	137	
	TAKE AS UNIT WITH B+C-STUDENT MAY TAKE NOTHING ELSE				
521B	DIAG-CCR READ DISAB			C4.0	CR
	PREREQ 521A				
1*	12.30-01.20	MTWTHF	WHAM	137	
	TAKE AS UNIT WITH A+C- STUDENT MAY TAKE NOTHING ELSE				
521C	DIAG-CCR READ DISAB			C4.0	CR
	PREREQ 521B				
1*	01.30-02.20	MTWTHF	WHAM	137	
	TAKE AS UNIT WITH A+B- STUDENT MAY TAKE NOTHING ELSE				
537	KIND-PRI READING			C4.0	CR
	PREREQ 337 CR	CONSENT OF INSTRUCTOR			
1*	01.30-02.20	MTWTHF	WHAM	212	BAKER
541	PRCB EL SCH SCI			C4.0	CR
	PREREQ 441, CR 442 CR	CONSENT OF INSTR			
1*	09.30-10.20	MTWTHF	WHAM	208	NEWPCRT
542	LANG ARTS IN EL SCH			C1.0 TO C4.0	CR
1*	10.30-11.20	MTWTHF	WHAM	210	RAGSCALE
543	SOC STLD IN EL SCH			C4.0	CR
1*	11.30-12.30	MTWTHF	WHAM	206	RANDCLPH
557	ELEM PRINCIPALSHIP			C4.0	CR
1*	09.30-10.20	MTWTHF	WHAM	212	BRADFIELD
560	KIND-FRI ED			C4.0	CR
	PREREQ	CONSENT OF INSTRUCTOR			
1*	08.30-09.20	MTWTHF	WHAM	208	MCLAREN
561	ELEM SCH CURR			C4.0	CR
1*	09.30-10.20	MTWTHF	WHAM	206	LEE
575A	IND RES CURRICULUM			C2.0 TO C4.0	CR
1	TC BE ARRANGED				LEE
575B	IND RES SUPERVISION			C2.0 TO C4.0	CR
1	TC BE ARRANGED				BRADFIELD
575C	IND RES LANG ARTS			C2.0 TO C4.0	CR
1	TC BE ARRANGED				RAGSCALE
575D	IND RES SCIENCE			C2.0 TO C4.0	CR
1	TC BE ARRANGED				NEWPCRT
575E	IND RES READING			C2.0 TO C4.0	CR
1	TC BE ARRANGED				HILL
575F	IND RES SCC STUD			C2.0 TO C4.0	CR
1	TC BE ARRANGED				RANDCLPH
575G	IND RES ELEM ED			C2.0 TO C4.0	CR
1	TC BE ARRANGED				SLCAN
575H	IND RES ARITHMETIC			C2.0 TO C4.0	CR
1	TC BE ARRANGED				
575J	IND RES PROB IN K-P			C2.0 TO C4.0	CR
1	TC BE ARRANGED				BAKER
596	INDEPENDENT INVEST			C5.0 TO C9.0	CR
1	TC BE ARRANGED				LEE
599	THESIS			C3.0 TO C9.0	CR
1	TC BE ARRANGED				
600	DISSERTATION			C1.0 TO 48.0	CR
1	TC BE ARRANGED				LEE
2	TC BE ARRANGED				SLCAN
3	TC BE ARRANGED				HILL

### Engineering (ENGR)

100	ORIENTATION			C2.0	CR
1	03.30-04.20	T TH	TECH A	111	
222	DIG CCMP PRCG-ENGR			C3.0	CR
	PREREQ MATH 111B				
1*	07.30-08.20	MT TH	TECH A	111	
	08.30-09.20	T TH	WHAM	24	
2*	07.30-08.20	MT TH	TECH A	111	
	09.30-10.20	T TH	WHAM	24	
3*	07.30-08.20	MT TH	TECH A	111	
	02.30-03.20	M F	WHAM	24	

4*	07.30-08.20	MT TH	TECH A	111
	03.30-04.20	M F	WHAM	24
5*	07.30-08.20	MT TH	TECH A	111
	08.30-09.20	T TH	WHAM	24
6*	07.30-08.20	MT TH	TECH A	111
	09.30-10.20	T TH	WHAM	24
7*	07.30-08.20	MT TH	TECH A	111
	02.30-03.20	M F	WHAM	24
8*	07.30-08.20	MT TH	TECH A	111
	03.30-04.20	M F	WHAM	24
260A	ANAL MECHANICS		C3.0 CR	
	PREREQ CONCURRENT ENROLLMENT MATH 150B			
1	02.30-03.20	MTWTF	TECH A	308
	01.30-02.20	T	TECH A	308
	JUNE 17 - JULY 18			
260B	ANAL MECHANICS		C3.0 CR	
	PREREQ ENGR 260A			
1	02.30-03.20	MTWTF	TECH A	308
	01.30-02.20	T	TECH A	308
	JULY 21-AUGUST 29			
260C	ANAL MECHANICS		C3.0 CR	
	PREREQ ENGR 260B			
1	03.30-04.20	M W F	TECH A	222
300A	THERMODYNAMICS		C3.0 CR	
	PREREQ ENGR 260C			
1	03.30-04.20	M W F	TECH A	222
311A	ENGR MATERIALS		C3.0 CR	
	PREREQ ENGR 260C			
1	12.30-01.20	MT THF	TECH A	222
	07.30-10.20	M TH	TECH D	14
	JUNE 17-JULY 22			
2	12.30-01.20	MT THF	TECH A	222
	07.30-10.20	W F	TECH D	14
	JUNE 17-JULY 22			
311B	ENGR MATERIALS		C3.0 CR	
	PREREQ ENGR 311A			
1	12.30-01.20	MT THF	TECH A	222
	07.30-10.20	M TH	TECH D	14
	JULY 23-AUG 29			
2	12.30-01.20	MT THF	TECH A	222
	07.30-10.20	W F	TECH D	14
	JULY 23-AUG 29			
311C	ENGR MATERIALS		C3.0 CR	
	PREREQ CHEM 121B			
1	10.30-11.20	MT TH	TECH B	143
313A	FLUID MECHANICS		C3.0 CR	
	PREREQ ENGR 260C			
1	11.30-12.20	MTWTF	TECH D	14A
	12.30-01.20	W	TECH D	14A
	JUNE 17 - JULY 18			
313B	FLUID MECHANICS.		C3.0 CR	
	PREREQ ENGR 313A			
1	11.30-12.20	MTWTF	TECH D	14A
	12.30-01.20	W	TECH D	14A
	JULY 21 - AUG 29			
412A	ENGR PRACTICE		C3.0 CR	
1	01.30-02.20	M W F	TECH A	208
430	SPECIAL PROBLEMS		02.0 TO 08.0 CR	
	PREREQ CONSENT OF INSTR			
1	TO BE ARRANGED			
435A	ELECTRONICS		C3.0 CR	
	PREREQ ENGR 331B			
1	10.30-11.20	T F	TECH A	308
	01.30-04.20	TH	TECH D	106
450	FUND REACTIVE SYST		04.0 CR	
	PREREQ CHEM 121B AND ENGR 300A CR CONSENT OF INSTRUCTOR			



1	02.30-03.20	M W F	TECH A	208
	02.30-04.20	T	TECH B	42
570	SPECIAL INVESTIGAT		02.0 TC	06.0 CR
1	TC BE ARRANGED			
580	SEMINAR		01.0 TC	09.0 CR
1	TC BE ARRANGED			
599	THESIS		01.0 TC	09.0 CR
1	TC BE ARRANGED			

## Engineering Technology (E T)

100	ORIENTATION			02.0 CR
1	03.30-04.20	T TH	TECH A	111
102A	GRAPHIC COMMUNICAT			03.0 CR
1	09.30-10.20	W	TECH A	111
	09.30-11.20	M TH	TECH A	209
2	09.30-10.20	W	TECH A	111
	02.30-04.20	M TH	TECH A	209
3	09.30-10.20	W	TECH A	111
	07.30-09.20	M TH	TECH A	209
4	09.30-10.20	W	TECH A	111
	12.30-02.20	M TH	TECH A	207
102B	GRAPHIC COMMUNICAT			03.0 CR
	PREREQ E T 102A			
1	10.30-11.20	W	TECH A	207
	09.30-11.20	M TH	TECH A	207
102C	GRAPHIC COMMUNICAT			03.0 CR
	PREREQ E T 102B			
1	02.30-03.20	W	TECH A	207
	02.30-04.20	M TH	TECH A	207
260A	ANALYTIC MECHANICS			03.0 CR
	PREREQ MATH 150B		CR CONCURRENT ENROLLMENT IN MATH 150B	
1	10.30-11.20	MTWTF	TECH A	320
	11.30-12.00	TH	TECH A	320
	JUNE 16 - JULY 25			
260B	ANALYTIC MECHANICS			03.0 CR
	PREREQ E T 260A			
1	10.30-11.20	MTWTF	TECH A	320
	11.30-12.20	TH	TECH A	320
	JULY 28 - SEPT 5			
260C	ANALYTIC MECHANICS			03.0 CR
	PREREQ E T 260B			
1	10.30-11.20	M W F	TECH A	220
304A	ELECTRICAL CIRCUITS			03.0 CR
	PREREQ MATH 252			
1	01.30-02.20	M W	TECH D	104
	01.30-03.20	F	TECH D	104
304C	ELECTRICAL CIRCUITS			03.0 CR
	PREREQ E T 304B			
1	07.30-08.20	M W	TECH D	104
	07.30-10.20	F	TECH D	104
318A	HYDRAULICS			03.0 CR
	PREREQ E T 260C			
1	01.30-03.20	M W F	TECH D	14A
	JUNE 16 - JULY 25			
318B	HYDRAULICS			03.0 CR
	PREREQ E T 318A			
1	01.30-03.20	M W F	TECH D	14A
	JULY 28 - SEPT 5			
363A	SURVEYING			04.0 CR
	PREREQ E T 101			
1	03.30-04.20	M W	TECH A	210
	07.30-10.20	M TH	TECH A	319
2	03.30-04.20	M W	TECH A	210
	01.30-04.20	T TH	TECH A	319
430	SPECIAL PROBLEMS		02.0 TC	08.0 CR
	PREREQ CONSENT OF COORDINATOR			

1	TC BE ARRANGED	
570	SPECIAL INVESTIGAT	C2.C TC C6.C CR
1	TC BE ARRANGED	
58C	SEMINAR	C1.C TC C9.C CR
1	TC BE ARRANGED	

## English (ENG)

300A	GRAMMATICAL ANAL		C3.C CR
1	08.30-09.20	M W F	PHY SC 116
2	09.30-10.20	M	H EC 206
	09.30-10.20	W F	MAIN 201
3	12.30-01.20	MT TH	H EC 120
300B	GRAMMATICAL ANAL		C3.0 CR
	PREREQ ENG 300A		
1	11.30-12.20	M W F	H EC 122
2	01.30-02.20	M W F	MAIN 102A
302A	ENG LIT TC 1550		C4.C CR
	PREREQ REQUIRED	CF STUDENTS WITH	CONCENTRATION IN ENGLISH
1	11.30-12.20	MT THF	H EC 118
302B	ENG LIT 1550-1750		C4.0 CR
	PREREQ REQUIRED	CF STUDENTS WITH	CONCENTRATION IN ENGLISH
1	08.30-09.20	MT THF	AG 188
2	01.30-02.20	MT THF	H EC 106
302C	ENG LIT-AFTER 1750		C4.C CR
	PREREQ REQUIRED	CF STUDENTS WITH	CONCENTRATION IN ENGLISH
1	08.30-09.20	MT THF	COMP 122
309A	AMER LIT-TC 1860		C4.0 CR
1	10.30-11.20	M	WHAM 303
	10.30-11.20	T THF	WHAM 329
309C	AM LIT 1914-PRESENT		C4.0 CR
1	12.30-01.20	MT THF	H EC 106
390	ADVANCE COMPOSITION		C3.C CR
1	09.30-10.20	M	WHAM 301B
	09.30-10.20	T TH	GYM 204
2	10.30-11.20	M W F	MAIN 305
3	01.30-02.20	M W F	H EC 122A
400	INTRO ENG LINGUIST		C4.C CR
1	07.30-08.20	MT THF	WHAM 319 FRIEND
403	HIST - ENG LANGUAGE		C4.C CR
1	08.30-09.20	M W THF	WHAM 307 RAINECW
404B	MID ENG LIT-CHAUCER		C4.C CR
1	08.30-09.20	MT THF	H EC 208 FATTEN
412A	16C ENG LIT-NON DR		C4.C CR
	PREREQ MAY BE TAKEN SINGLY		
1	10.30-11.20	MT THF	H EC 122 FATTEN
420A	AMER PCET - TC 1900		C4.0 CR
	PREREQ MAY BE TAKEN SINGLY		
1*	02.30-03.20	MTWTHF	H EC 122 MOSS
421A	ENG PCET-EARLY ROM		C4.0 CR
1	01.30-02.20	MT THF	WHAM 312 GOODIN
454B	ENG FICT-VICT NOVEL		C4.0 CR
1*	07.30-08.20	MT THF	H EC 201 PARTLCH
454C	ENG FICT-CONTEMP BR		C4.C CR
1	10.30-11.20	MT THF	AG 188 BOYLE
458A	AMER FICT - NOVEL		C4.0 CR
1*	09.30-10.20	MTWTHF	H EC 201 WEBB
464	MODERN CONTEMP DRAMA		C4.C CR
1	01.30-02.20	MT THF	H EC 201 RAIZIS
471A	SHAKESPEARE		C4.0 CR
1	09.30-10.20	MT THF	MAIN 102A CONCW
486	HIGH SCHOOL ENGLISH		C2.0 TC C8.0 CR
1*	09.30-10.20	MTWTHF	LAWSON 201 EVANS
487	JR-HIGH SCHOOL ENG		C2.C TC C8.0 CR
1*	09.30-10.20	MTWTHF	LAWSON 201 EVANS
495A	LIT CRITICISM-HIST		C4.C CR

1	12.30-01.20	MT THF	CCMM	122	EENZIGER
497C	HONORS ENGLISH		C4.0 CR		
1	TC BE ARRANGED				
499	READINGS IN ENGLISH	C2.0 TO C6.0 CR			
	PREREQ NO MORE THAN FOUR PRS MAY BE TAKEN IN ANY ONE CTR				
1	TC BE ARRANGED				
2	11.30-01.20	T TH	WHAM	329	
500	M + M ENG RESEARCH		C2.0 CR		
1	07.30-08.20	M W	WHAM	301A	RAINECH
508	STUDIES IN CHAUCER		C4.0 CR		
1	11.30-01.20	M W	TECH B	20	GARDNER
	TOPIC EARLY POEMS				
513	STUD 17 C ENG LIT		C4.0 CR		
1	01.30-03.20	M W	CL	326	SCHULTZ
	TOPIC MILTON				
514B	EARLY 18TH C LIT		C4.0 CR		
1	09.30-11.20	M W	WHAM	307	SCHENFERN
	TOPIC DEFCE, SWIFT, JRNL IN AGE OF QUEEN ANN				
519	STUD CCNT BRIT LIT		C4.0 CR		
1	07.30-09.20	T TH	PHY SC	410	EOYLE
	TOPIC THOMAS HARDY				
520	STUD ROM WRITERS		C4.0 CR		
1	09.30-11.20	T TH	PHY SC	410	EENZIGER
	ROMANTIC THEORIES + THEORIES OF ROMANTICISM				
536	STUD LAT 19C AM WR		C4.0 CR		
1*	11.30-01.20	T TH	CL	326	MOSS
	TOPIC EMILY DICKINSON				
537	STUD 20TH C AM WR		C4.0 CR		
1	01.30-03.20	T TH	PHY SC	410	STIBITZ
	TOPIC ROBERT FROST				
540	STUDIES-LINGUISTICS		C2.0 CR		
	PREREQ ENGLISH 400 CR EQUIVALENT, CONSENT OF INSTRUCTOR				
1	01.30-02.20	MT THF	H EC	118	REDDEN
569	SEM-SPEC PROBLEMS		C4.0 CR		
	PREREQ RESTRICTED TO ENGLISH AS A FOREIGN LANG STUDENTS				
1	09.30-10.20	M	MAIN	202	FARISH
	09.30-10.20	T	WHAM	321	
	09.30-10.20	THF	H EC	122	
2	11.30-12.20	MT THF	WHAM	212	REDDEN
581A	COMP IN HIGH SCHOOL		C4.0 CR		
1*	11.30-12.20	MTWTHF	H EC	122A	EVANS
597	READ-LINGUISTICS		C2.0 TO C6.0 CR		
	PREREQ ENGLISH 400 CR EQUIVALENT-CONSENT OF DEPARTMENT				
1	TC BE ARRANGED				
598A	IND REV ENG AM LIT		C1.0 TO C3.0 CR		
1	TC BE ARRANGED				
598B	IND REV ENG AM LIT		C1.0 TO C3.0 CR		
1	TC BE ARRANGED				
600	DISSERTATION		C1.0 TO 48.0 CR		
1	TC BE ARRANGED				

# Finance (FIN)

320	INTRC TO BUS FIN		C4.0 CR		
	PREREQ ACCT 261 OR CONSENT OF INSTRUCTOR, ECON 215				
1	08.30-09.20	MTWTHF	WHAM	308	
2	10.30-11.20	MTWTHF	WHAM	206	
323	INVESTMENTS		C4.0 CR		
	PREREQ 320 OR CONSENT OF INSTRUCTOR				
1	11.30-12.20	MTWTH	WHAM	308	
325	FINANCIAL MARKETS		C4.0 CR		
	PREREQ FIN 320 OR CONSENT OF INSTRUCTOR				
1	08.30-09.20	MTWTH	CL	24	FENSTEMAKER
371	BUSINESS LAW I		C4.0 CR		
1	01.30-02.20	TWTHF	LAWSON	201	WATERS
373	BUSINESS LAW III		C4.0 CR		
	PREREQ 371				

1	03.30-04.20	MTWTF	CL	24	LAYCCCK
421	MGT OF BUS FINANCE			C4.0 CR	
	PREREQ 32C				
1	09.30-10.20	MTWTF	COMM	122	
473	BUS IN LEG ENVIRON			C4.0 CR	
	PREREQ SENIOR STANDING				
1	02.30-03.20	TWTF	CL	24	WATERS

### Food & Nutrition (F & N)

100	FUNDAMENT NUTRI			C3.0 CR	
1	09.30-10.20	M W F	F EC	14CE	PAYNE
247C	SCHOOL LUNCH PRCG			C2.0 CR	
1	09.00-04.00	MTWTF	F EC	119	BECKER
	JUNE 16 - 20				
256	SCIENCE OF FOOD			C5.0 CR	
	PREREQ F+N 100 + CHEM 110,240				
1	08.30-09.20	M W F	F EC	203	BECKER
	07.30-09.20	T TH	F EC	212	
335	MEAL MANAGEMENT			C4.0 CR	
	PREREQ F+N 256				
1	10.30-11.20	T TH	F EC	101	BECKER
	11.30-01.20	T TH	F EC	105	
371	FIELD EXPERIENCE			C6.0 CR	
	PREREQ CONSENT OF CHAIRMAN + INSTRUCTOR				
1	TO BE ARRANGED				BECKER
421	REC TRENDS IN FOOD			C3.0 CR	
	PREREQ F+N 320 OR EQUIVALENT				
1*	03.30-04.20	M W F	F EC	212	
481	READINGS			C2.0 TO C4.0 CR	
	PREREQ F+N 320 + CONSENT OF CHAIRMAN				CR INSTR
1*	TO BE ARRANGED				PAYNE
572	SPECIAL PROBLEMS			C2.0 TO C8.0 CR	
1*	TO BE ARRANGED				PAYNE
599	THESIS			C5.0 TO C9.0 CR	
	PREREQ CONSENT OF INSTRUCTOR				
1*	TO BE ARRANGED				PAYNE

### French (FR)

161A	FR FOR GRAD STUDENT			C0.0 CR	
1	09.30-10.20	MTWTF	WHLR	107	
161B	FR FOR GRAD STUDENT			C0.0 CR	
1	09.30-10.20	MTWTF	MAIN	308	
201	INTERMEDIATE FRENCH			C9.0 CR	
	PREREQ GSD 123-9 CR GSD 123C, CR 2YRS HIGH SCHOOL				
1	09.30-11.20	MTWTF	WHLR	113	
	09.30-10.20	W	WHLR	113	
	10.30-11.20	W	MAIN	101	
	ACCELERATED				
201B	INTERMEDIATE FRENCH			C3.0 CR	
	PREREQ FR 201A				
1	11.30-12.20	M W F	WHLR	207	
	11.30-12.20	T	MAIN	101	
201C	INTERMEDIATE FRENCH			C3.0 CR	
	PREREQ FR 201B				
1	02.30-03.20	MTWTF	WHLR	207	
	02.30-03.20	W	MAIN	101	
350	ADV COMP-AND CONV			C4.0 CR	
1	08.30-09.20	MTWTF	CL	25	KILKER
354	INTRC LIT ANALYSIS			C4.0 CR	
	PREREQ FR 350				
1	08.30-09.20	MTWTF	MAIN	209	
461	FRENCH STYLISTICS			C4.0 CR	
	PREREQ 350 CR CONSENT OF INSTRUCTOR				
1	09.30-10.20	MTW F	F EC	104	



501	SEM SELC FR AUTHOR	C2.0	TC	C6.0	CR.	
1	10.30-11.20	T TH		H EC	201	SMITH
	TCPIC - STENDHAL					
543	RESEARCH PROBLEMS	C0.0	TO	C6.0	CR	
1	TC BE ARRANGED					
599	THESIS	C3.0	TC	C9.0	CR	
1	TC BE ARRANGED					

### German (GER)

161A	GER FCR GRAD STUD			C0.0	CR	
1	01.30-02.20	MTW F		WHAM	307	
161B	GER FCR GRAD STUD			C0.0	CR	
1	01.30-02.20	MTW F		WHLR	214	
201	INTERMEDIATE GERMAN			C9.0	CR	
1	08.30-10.20	MT THF		WHLR	207	
	08.30-09.20			WHLR	207	
	09.30-10.20			MAIN	101	
	ACCELERATED					
201C	INTERMEDIATE GERMAN			C3.0	CR	
	PREREQ GER 201B					
1	11.30-12.20	M W F		WHLR	113	
	11.30-12.20			MAIN	101	
303	NOVELLE 19TH CENT			C4.0	CR	
1	11.30-12.20	MT THF		WHLR	212	FUNKE
403	BALLADS + LYRICS			C3.0	CR	
1	10.30-11.20	M W F		WHLR	212	FUNKE
413B	GERMAN LINGUISTICS			C3.0	CR	
1	09.30-10.20	M W F		H EC	122A	FRENCH
497	READG 18TH CT LIT			C1.0	TO C2.0	CR
1	10.30-11.20	T TH		MAIN	202	FARTWIG
501	SEMINAR GER AUTHOR			C2.0	CR	
1	09.30-10.20	T TH		WHAM	307	FARTWIG
512	19TH CENTURY NOVEL			C3.0	CR	
1	01.30-02.20	M W F		WHLR	203	FRENCH
543	RESEARCH PROBLEMS			C2.0	TO C6.0	CR
1	TC BE ARRANGED					
599	THESIS			C2.0	TO C9.0	CR
1	TC BE ARRANGED					

### Russian (RUSS)

320	READING IN RUSS LIT			C2.0	CR	
1	10.30-11.20	T TH		WHLR	212	KUPCEK
414	RUSSIAN POETRY			C3.0	CR	
1	11.30-12.20	M W F		WHAM	214	KUPCEK
415	RUSSIAN PHONETICS			C3.0	CR	
	PREREQ RUSS 30EC					
1	10.30-11.20	M W F		H EC	106	KUPCEK

### Spanish (SPAN)

161A	SPAN FCR GRAD STUD			C0.0	CR	
1	12.30-01.20	MTWTH		H EC	122	
161B	SPAN FCR GRAD STUD			C0.0	CR	
1	12.30-01.20	MTWTH		H EC	104	
201	INTERMEDIATE SPANIS			C9.0	CR	
	PREREQ GSD 140-9 CR GSD			140C CR 2YRS	HIGH SCHCCL	
1	09.30-11.20	M W F		H EC	203	
	09.30-11.20			MAIN	102	
	09.30-10.20			H EC	203	
	10.30-11.20			MAIN	101	
	ACCELERATED COURSE					
201A	INTERMED SPANISH			C3.0	CR	
	PREREQ GSD 140-9 CR GSD			140C OR 2 YRS	HIGH SCHCCL	
	01.30-02.20	T		MAIN	101	

201C	INTERMED SPANISH			C3.0 CR	
	PREREQ SPAN 201B				
1	09.30-10.20	M W F	WHLR	203	
	09.30-10.20	TH	MAIN	101	
316	CIVIL ESPANOLA			C3.0 CR	
	PREREQ CONSENT OF INSTRUCTOR				
1	08.30-09.20	M W F	WHLR	203	ANDERSON
422	CCNT SP AM PCETRY			C3.0 CR	
1	10.30-11.20	M W F	WHLR	207	ANDERSON
475	GEN TOPICS IN SPAN			C3.0 TC 12.0 CR	
1	09.30-10.20	MTW	WHLR	202	ANDERSON
500	SEMINAR LAT AM FICT			C2.0 TC 06.0 CR	
1	11.30-12.20	T TH	WHLR	203	
543	RESEARCH PROBLEMS			C2.0 TC 06.0 CR	
1	TC BE ARRANGED				
599	THESIS			C2.0 TC 09.0 CR	
1	TC BE ARRANGED				

### Forestry (FOR)

221	DENDROLOGY			C4.0 CR	
1	10.30-11.20	M W F	AG	187	FCSLEY
	10.30-12.20	T	AG	187	
259	TECH IN AG + FOREST			C3.0 TC 06.0 CR	
	PREREQ TRANSFER FROM 2 YR PROGRAM				
1	TC BE ARRANGED				ANDERSON
390	SPEC STLD FORESTRY			C1.0 TC 06.0 CR	
	PREREQ ADV STANDING + CONSENT OF INSTRUCTOR (3.75) AVERAGE				
1	TC BE ARRANGED				
490	PRACTICUM			C4.0 TC 16.0 CR	
	PREREQ CONSENT OF DEPARTMENT				
1	TC BE ARRANGED				
520A	READ FOR + FOR REC			C1.0 TC 06.0 CR	
	PREREQ CONSENT OF INSTRUCTOR				
1	TC BE ARRANGED				
520B	READINGS RES ECON			C1.0 TC 06.0 CR	
	PREREQ CONSENT OF INSTRUCTOR + FOR 375 CR EQUIVALENT				
1	TC BE ARRANGED				
520C	READ FOR PRO WD SCI			C1.0 TC 06.0 CR	
	PREREQ CONSENT OF INSTRUCTOR				
1	TC BE ARRANGED				
575	RESEARCH			C1.0 TC 06.0 CR	
1	TC BE ARRANGED				
599	THESIS			C1.0 TC 09.0 CR	
1	TC BE ARRANGED				

### Geography (GEOG)

300	INTRO TO GEOG			C4.0 CR	
1	08.30-09.20	M W	LAWSON	131	FILLIARD
	08.30-10.20	F	AG	116	
302	PHYSICAL GEOGRAPHY			C4.0 CR	
	PREREQ GEOG 300				
1	07.30-08.20	MTWTH	0483	101	SHARPE
306	CULTURAL GEOGRAPHY			C4.0 CR	
1	09.30-10.20	MTWTH	0483	101	LCBB
400	GEOGRAPHIC METHODS			03.0 CR	
	PREREQ GSB 101A AND GEOG 302, 304, AND 306				
1	08.30-12.00	MTWTF	WHAM	228	SCHMIDDE
	01.30-03.00	MTWTF	WHAM	228	
	RESTRICTED TO EPDA INSTITUTE				
404A	ADV ECON GEOG I			C4.0 CR	
	PREREQ GEOG 304 CR CONSENT OF DEPT				
1	10.30-11.20	MTWTH	0483	101	FILLIARD
406A	ADV CULT GEOG I			C4.0 CR	
	PREREQ GEOG 306 CR CONSENT OF DEPT				

1	11.30-12.20	MTWTF	C483	101	LCBB
440	READINGS-MAJCRS	02.0	TC	C6.0	CR
	PREREQ MAJCRS ONLY				
1	TC BE ARRANGED				
490A	TUTORIAL IN GECG	C1.0	TC	C4.0	CR
	PREREQ GECG MAJOR AND SENIOR STANDING				
1	12.30-02.20	M		PHY SC	410
515	FIELD CCURSE	C4.0	TC	C6.0	CR
	PREREQ MASTERS DEGREE CR GECG 500 AND 501				
1	TC BE ARRANGED				
520	SEMINAR PHYS GECG	C4.0	CR		
1	10.30-12.20	M W	AG		116
530	INDEP STLDY GECG	C2.0	TC	10.0	CR
1	TC BE ARRANGED				
540A	RESEARCH PHYS GECG	C4.0	CR		
	PREREQ GECG 520				
1	08.30-12.00	MTWTF	WHAM	228	SCHMULDEE
	01.30-03.00	MTWTF	WHAM	228	
	RESTRICTED TO EPDA INSTITUTE				
540B	RESEARCH-ECON GECG	C5.0	CR		
	PREREQ GECG 521				
1	08.30-12.00	MTWTF	WHAM	228	SCHMULDEE
	01.30-03.00	MTWTF	WHAM	228	
	RESTRICTED TO EPDA INSTITUTE				
540C	RESEARCH REG GECG	C2.0	TC	36.0	CR
	PREREQ GECG 522				
1	TC BE ARRANGED				
540D	RESEARCH CULT GECG	C2.0	TC	36.0	CR
	PREREQ GECG 524				
1	TC BE ARRANGED				
599	THESIS	C3.0	TC	C9.0	CR
	PREREQ CCNSENT OF DEPT				
1	TC BE ARRANGED				
600	DISSERTATION	C1.0	TC	48.0	CR
	PREREQ CCNSENT OF DEPT				
1	TC BE ARRANGED				

### Geology (GEOL)

430	PHYSICGRAPHIC N AM	C4.0	CR		
	PREREQ GEOL 220				
1	TC BE ARRANGED			AG	BELL
440	INDEPENDENT STUDY	C1.0	TC	C4.0	CR
	PREREQ GEOL 220, 221, ADVANCED STANDING				
1	TC BE ARRANGED				
450A	FIELD GEOLOGY	C9.0	CR		
1	TC BE ARRANGED				SAWATZKY
450B	ADV FIELD GEOLOGY	C3.0	CR		
1	TC BE ARRANGED				SAWATZKY
540	ADV STUD-STRUCTURE	C1.0	TC	C9.0	CR
	PREREQ CCNSENT OF INSTRUCTOR				
1	11.30-12.20	M W	AG		MILLER
541	RESEARCH	C1.0	TC	C9.0	CR
1	TC BE ARRANGED				
599	THESIS	C2.0	TC	C9.0	CR
1	TC BE ARRANGED				

### Government (GOVT)

231	AMERICAN NATL GOVT	C5.0	CR		
1	12.30-01.20	MTWTF	LAWSON	131	
232	STATE LOCAL GOVT	C5.0	CR		
	PREREQ GOVT 231 CR GSB 211B				
1	10.30-11.20	MTWTF	PARK	111	BAKER
2	11.30-12.20	MTWTF	LAWSON	131	RIDGEWAY
300	AMERICAN GOVERNMENT	C4.0	CR		
	PREREQ GSB 303				

1	07.30-08.20	MTW F	LAWSON	101	KAMARASY
315	ADMIN CF JUSTICE		C3.0 CR		
	PREREQ GOVT 232				
1	10.30-11.20	M F	LAWSON	131	ALEXANDER
	10.30-11.20	W	LAWSON	201	
321	READINGS		C1.0 TO C6.0 CR		
	PREREQ CONSENT OF INSTRUCTCP				
1	TC BE ARRANGED				ALEXANDER
2	TC BE ARRANGED				ALEXANDER
330	ILL GOVERNMENT		C2.0 CR		
	PREREQ GOVT 232				
1	08.30-09.20	T TH	LAWSON	131	KENNEY
340	THE LEGIS PRCCSS		C3.0 CR		
	PREREQ GOVT 231				
1	01.30-02.20	M	CL	24	VANDERSLIK
	01.30-02.20	T TH	CL	109	
360	PUBLIC ADMIN		C5.0 CR		
	PREREQ GOVT 231				
1	08.30-09.20	MTWTF	LAWSON	231	SAPPENFIELD
398	GOVERNMENT AND LAW		C4.0 CR		
	PREREQ GOVT 231				
1	10.30-11.20	MTWTH	GYM	204	WASBY
420	PRESSURE GROUPS PCL		C3.0 CR		
	PREREQ GOVT 231				
1	01.30-02.20	MT TH	GYM	204	EVERSON
430	GOVT NATL SEC		C3.0 CR		
	PREREQ GOVT 231 CR CCNSENT CF INSTRUCTOR				
1	12.30-01.20	MT TH	MAIN	102	FANSEN
457A	GOVT NEAR MID EAST		C4.0 CR		
1	01.30-02.20	M W	MAIN	102	FANSEN
	01.30-02.20	T TH	H EC	203	
463	GOVT SCC + ECON PCL		C3.0 CR		
	PREREQ GSB 211E CR CCNSENT CF INSTRUCTOR				
1	09.30-10.20	M W F	GYM	204	RIDGEWAY
467	MUN GOVT AND ADMIN		C4.0 CR		
	PREREQ GOVT 232				
1	11.30-12.20	MT THF	WHAM	317	BAKER
480	PACIFIC + FAR EAST		C4.0 CR		
	PREREQ GSB 303 OR HIST 370				
1	12.30-01.20	M WTHF	WHAM	203	CHCU
499	SCOPE + MET CF GOVT		C4.0 CR		
	PREREQ 200, AND 20 HRS IN COURSES NUMBERED ABOVE 399				
1	07.30-08.20	MT THF	CL	109	KENNEY
502	SEMINAR GOVT PRCB		C4.0 CR		
	PREREQ CCNSENT OF INSTRUCTOR				
1	01.30-03.20	T TH	CL	326	MILLER
520	SEM AMER FOR POLICY		C4.0 CR		
	PREREQ GOVT 371 CR CCNSENT CF INSTRUCTOR				
1	03.30-05.20	M W	CL	326	CHCU
521	READINGS		C1.0 TO 12.0 CR		
	PREREQ CONSENT OF INSTRUCTOR				
1	TC BE ARRANGED				ALEXANDER
2	TC BE ARRANGED				ALEXANDER
530	INTERNSP PUB AFF		C4.0 TO 12.0 CR		
	PREREQ CONSENT OF DEPARTMENT				
1	TC BE ARRANGED				
595	INDIVIDUAL RESEARCH		C2.0 TO 12.0 CR		
	PREREQ GOVT 499 CR CCNSENT CF INSTRUCTOR				
1	TO BE ARRANGED				KLINGBERG
599	THESIS		C2.0 TO 09.0 CR		
	PREREQ GOVT 499 CR CCNSENT CF INSTRUCTOR				
1	TO BE ARRANGED				KLINGBERG
600	DISSERTATION		C1.0 TO 48.0 CR		
	PREREQ MIN CF 36 HRS TC BE EARNED FOR DCC CF PHIL DEGREE				
1	TC BE ARRANGED				KLINGBERG



# Guidance and Educational Psychology

(GUID)

305	EDUC PSYCHOLGY			C4.C	CR	
	PREREQ	GSB 201C				
1	07.30-08.20	W F	LAWSON	141	BLUMENFELD	
	07.30-08.20	T TH	LAWSON	151		
2	12.30-01.20	TWTHF	LAWSON	161	BLUMENFELD	
412	MENTAL HYGIENE			C4.C	CR	
	PREREQ	GUID 305				
1*	10.30-11.20	MTWTHF	WHAM	302	YATES	
422A	CONST-USE EVAL INST			C4.C	CR	
	PREREQ	GUID 305				
1*	08.30-09.20	MTWTHF	LAWSON	101	BOGSMILLER	
2*	01.30-02.20	MTWTHF	WHAM	319	AUSTIN	
442	BASIC PRIN OF GUID			C4.0	CR	
	PREREQ	GUID 305				
1*	09.30-10.20	MTWTHF	COMM	111	DEWEESE	
481	SEMINAR			C2.C	TC 12.0	CR
	PREREQ	GUID 305				AND CONSENT OF INSTRUCTOR + DEPARTMENT
1*	TC BE ARRANGED					
501	SPEC RESEARCH PROB			C2.C	TC 12.0	CR
	PREREQ	ADVANCED				STANDING + CONSENT OF DEPARTMENT
1	TC BE ARRANGED					
505	INTR TC STAT METH			C4.C	CR	
1*	08.30-09.20	MTWTHF	WHAM	205	BEGGS	
2*	09.30-10.20	MTWTHF	WHAM	312	MCNEIL	
506	ADV STATISTICAL MET			C4.C	CR	
	PREREQ	GUID 505				
1*	09.30-10.20	MTWTHF	PULL	39	MCUW	
507	DES + ANAL OF EXPER			C4.0	CR	
	PREREQ	GUID 506				
1*	08.30-09.20	MTWTHF	PULL	39	MCUW	
511	ED IMPL OF LEARN TH			C4.C	CR	
	PREREQ	ADVANCED				STANDING
1	01.30-03.20	M W	WHAM	303	LAWS	
515	PSY ASPECTS OF ED			C4.0	CR	
	PREREQ	ADVANCED				STANDING
1	10.30-11.20	MTWTHF	WHAM	205	LAWS	
521A	ANAL-CLASSRM BEHAV			C4.0	CR	
	PREREQ	GUID 305				
1*	01.30-03.20	M W	WHAM	302	MAYER	
530	STANDARDIZED TEST			C4.C	CR	
	PREREQ	GUID 505				
1*	01.30-03.30	T TH	WHAM	321	BRADLEY	
531	THEORY OF MEASUREMENT			C4.0	CR	
	PREREQ	GUID 505				CR CONSENT OF INSTRUCTOR
1*	10.30-11.20	MTWTHF	WHAM	312	MCNEIL	
532A	INDIV MEAS THEORY			C4.C	CR	
	PREREQ	GUID 505				AND CONSENT OF INSTRUCTOR
1*	06.00-09.00 PM	TH	WHAM	229	CALY	
532B	INDIV MEAS APPRAIS			C4.0	CR	
	PREREQ	GUID 532A				
1	06.00-09.00 PM	M	WHAM	229	AMBLE	
537A	COUNSEL THEORY--PRAC			C4.0	CR	
	PREREQ	CONSENT OF DEPARTMENT				
1*	01.30-03.20	M W	WHAM	317	MECK	
541	OCCUP INF + GUID			C4.C	CR	
	PREREQ	GUID 442				
1*	11.30-12.20	MTW F	TECH A	214	RAMP	
	11.30-12.20	TH	TECH A	222		
543	GUID THROUGH GROUPS			C4.0	CR	
	PREREQ	GUID 442				
1*	10.30-12.20	M W	WHAM	329	GRAF	
2*	01.30-03.20	T TH	WHAM	317	GRENELL	
545M	SEM-PSYC FOUND - ED			C4.C	CR	
1*	09.30-11.20	M W	TECH B	20	CODY	
548A	PRACT IN SEC GUID			C2.0	TO C4.C	CR
	PREREQ	GUID 537				AND CONSENT OF INSTRUCTOR

1\* TC BE ARRANGED  
 548B PRACT IN ELEM GUID C2.0 TO 04.0 CR  
 PREREQ GUID 537 AND CCNSENT CF INSTRCTCR  
 1\* TC BE ARRANGED  
 548C PRACT IN CCUNSELING C4.0 TC 08.0 CR  
 PREREQ CCNSENT OF INSTRCTOR  
 1\* TC BE ARRANGED  
 548C PRAC IN SCHCOL PSYC C2.0 TC 08.0 CR  
 PREREQ CCNSENT OF INSTRCTCR  
 1\* TC BE ARRANGED  
 553 GUID-FUPIL PERS SER C2.0 TO 04.0 CR  
 PREREQ GUID 537  
 1\* 03.30-04.20 MTWTF WHAM 317 ALTEKRLSE  
 562A HUM DEV IN ED-CHILD C4.0 CR  
 PREREQ ADVANCED STANDING  
 1\* 03.30-05.20 M W WHAM 319 MAYER  
 562B HUM DEV IN ED-ADOL C4.0 CR  
 PREREQ MAY BE TAKEN IN A,B SEQUENCE  
 1\* 08.30-10.20 T TH PARK 111 BRADLEY  
 58C TOP SEM-STAT + MEAS C2.0 TC 12.0 CR  
 PREREQ INSTRUCTORS PERMISSION  
 1\* 09.30-12.00 M W CL 326 BEGGS  
 581 INTERN-COUNS + GUID C1.0 TC 12.0 CR  
 PREREQ GUID 548C  
 1\* TC BE ARRANGED  
 590 SEM - BEHAV FOUNDAT C2.0 CR  
 PREREQ FORMAL ADMISSION TC CCCTCR CF PHIL STUDIES  
 1\* 09.30-11.20 M WHAM 301A JORDAN  
 596 INDEP INVESTIGATION C2.0 TO 12.0 CR  
 PREREQ INSTRUCTORS PERMISSION  
 1\* 03.30-05.00 T TH WHAM 112  
 599 THESIS C3.0 TO 09.0 CR  
 1\* TC BE ARRANGED  
 600 DISSERTATION C1.0 TO 48.0 CR  
 1\* TC BE ARRANGED

## Health Education (H ED)

300 COMMUNICABLE DISEAS C3.0 CR  
 PREREQ H ED 305  
 1 11.30-12.20 MTWTH ARENA 121 MILLER  
 301 H ED CCNCEPTS ADV C4.0 CR  
 PREREQ H ED 305  
 1 11.30-12.20 MTWTH ARENA 119 VINCENT  
 302S DRIVER-TRAFF SAFETY C4.0 CR  
 PREREQ A VALID DRIVERS LISENSE AND H ED 305  
 1 07.30-08.20 MTWTH AG 224 RITZEL  
 305 PRIN-FOUND H ED C4.0 CR  
 1 12.30-01.20 MTWTH ARENA 121 PHILLIPS  
 334S FIRST AID C4.0 CR  
 PREREQ H ED 305  
 1 07.30-08.20 MTWTH ARENA 119 FARRIS  
 2 08.30-09.20 MTWTH ARENA 119 RITZEL  
 3 09.30-10.20 MTWTH ARENA 119 SMELSER  
 4 06.00-07.40 PM WTH GRASSY 100  
 350 METH MAT SCH HEALT C4.0 CR  
 PREREQ H ED 305  
 1 10.30-11.20 MTWTH ARENA 121 PHILLIPS  
 442S DRIV + TRAF SAFE ED C4.0 CR  
 PREREQ HED 302S  
 1 08.30-09.20 MTWTF L-APS 135  
 443S DRIV + TRAF SAFE ED C4.0 CR  
 PREREQ H ED 302  
 1\* 09.30-10.20 MTWTF L-APS 135 BRIDGES  
 445S DRIVER SIMULATION C4.0 CR  
 PREREQ HED 443S

1	01.30-05.00	MTWTF	L-APS	135	
	JUNE 16 - JULY 11				
2	01.30-05.00	MTWTF	L-APS	135	
	JULY 14 - AUG 8				
461	WORKSHOP HEALTH ED		C4.0 TO C8.0 CR		
	PREREQ H ED 100		CR ITS EQUIV		
1	01.20-04.40	MTWTF	ARENA	115	RUSSEL
	JULY 15 - AUG 2				
462	HEALTH ED WORKSHOP		C4.0 CR		
	PREREQ H ED 305				
1	01.20-04.40	MTWTF	ARENA	115	RUSSEL
	JULY 15 - AUG 2				
463	HEALTH ED WORKSHOP		C1.0 TO C4.0 CR		
	PREREQ H ED 305				
1	01.20-04.40	MTWTF	ARENA	115	
	JULY 15 - AUG 2				
464	WKSHP ALCOHOL EDUC		C4.0 CR		
	PREREQ H ED 305				
1	01.20-04.40	MTWTF	ARENA	115	
	JULY 15 - AUG 2				
471	CRG AD SCH HEALTH		C4.0 CR		
	PREREQ H ED 305				
1*	07.30-08.20	MTWTF	ARENA	121	LEFEVRE
475S	TRAFFIC LAW ENFORCE		C4.0 CR		
	PREREQ H ED 433S		CR CCNSENT CF INSTRUCTOR		
1	11.30-12.20	MTWTF	L-APS	135	
490	FLD WK SCH COMM HEA		C2.0 TO C8.0 CR		
	PREREQ RESTRICTED TC MAJORS IN DEPT				
1*	TC BE ARRANGED				GRISSEM
491	H TCH-SCHCL + COMM		C4.0 CR		
	PREREQ H ED 305, 471CR		CCNSENT CF INSTRUCTOR		
1*	08.30-09.20	MTWTF	ARENA	118	CASEY
511	PRACT H ED WKSHP		C5.0 CR		
1	11.30-12.20	MTWTF		125	RUSSEL
	JULY 15 - AUG 2				
520	SPECIAL PROJECTS		C4.0 TO C6.0 CR		
1	TC BE ARRANGED				BOYDSTON
526	EVALUATION IN H ED		C4.0 CR		
1*	10.30-11.20	MTWTF	ARENA	115	CASEY
530S	PROB RES ACCID PREV		C4.0 CR		
	PREREQ H ED 443S, 525S, CR		CCNSENT CF INSTRUCTOR		
1*	07.30-08.20	MTWTF	L-APS	135	AARON
533A	HUMAN CONSERVATION		C4.0 CR		
	PREREQ PERMISSION CF INSTRUCTOR				
1*	08.30-09.20	MTWTF	ARENA	121	GRISSEM
533C	HUMAN CONSERVATION		C4.0 CR		
	PREREQ H ED 533A, B				
1*	09.30-10.20	MTWTF	ARENA	121	GRISSEM
597A	SEMINAR		C1.0 CR		
1	TC BE ARRANGED				BOYDSTON
597B	SEMINAR		C1.0 CR		
1	TC BE ARRANGED				BOYDSTON
597C	SEMINAR		C1.0 CR		
1	TC BE ARRANGED				BOYDSTON
599	THESIS		C3.0 TO C9.0 CR		
1	TC BE ARRANGED				BOYDSTON
600	DISSERTATION		C1.0 TO 48.0 CR		
	PREREQ MUST MEET MINIMUM REQ OF 36 HRS FOR PH D DEGREE				
1	TC BE ARRANGED				BOYDSTON

### Higher Education (HIED)

510	HIGHER EDUC IN U S		C4.0 CR		
1*	08.30-09.20	MTWTF	WHAM	137	MCCRE
512	HIED-SELECT NATIONS		C4.0 CR		
1*	11.30-12.20	MTWTF	WHAM	205	JACOB

515	CCL STUDENT PER WK		C4.0	CR	
1	08.30-09.20	MTWTF	WHAM	319	GRAHAM
516	COLLEGE TEACHING		C4.0	CR	
1*	07.30-08.20	MTWTF	WHAM	137	MCKEEFERY
522	READINGS		C6.0	CR	
	PREREQ	CONSENT OF INSTRUCTOR			
1*	TC BE ARRANGED				MURPHY
2	TC BE ARRANGED				GRAHAM
3	TC BE ARRANGED				KING
523A	INTERN-COLL TEACH		01.0 TO 12.0	CR	
	PREREQ	CONSENT OF DEPT			
1*	TC BE ARRANGED				TOLLE
523B	INTERN-STUDENT PERS		01.0 TO 12.0	CR	
	PREREQ	CONSENT OF DEPT			
1*	TC BE ARRANGED				GRAHAM
523C	INTERN-COLLEGE ADM		01.0 TO 12.0	CR	
	PREREQ	CONSENT OF DEPT			
1*	TC BE ARRANGED				MCKEEFERY
524	INDIVIDUAL STUDY		02.0 TO 06.0	CR	
	PREREQ	CONSENT OF INSTRUCTOR			
1*	TC BE ARRANGED				MCKEEFERY
2	TC BE ARRANGED				GRAHAM
3	TC BE ARRANGED				KING
535I	JR COLLEGE ADMIN		C2.0	CR	
1	01.30-03.20	MTWTF	WHAM	208	TOLLE
	JUNE 30 - JULY 11				
545V	FED GOV + HI ED		C3.0	CR	
1	01.30-03.20	MTWTF	WHAM	208	
	JULY 14 - AUGUST 1				
565	COMMUNIT-JR COLLEGE		C4.0	CR	
1*	09.30-10.20	MTWTF	WHAM	319	TOLLE
578	ECON ASPECT OF HIED		C4.0	CR	
1*	10.30-11.20	MTWTF	WHAM	137	KING
589	ADVANCED RESEARCH		C4.0 TO 08.0	CR	
	PREREQ	CONSENT OF INSTRUCTOR			
1*	TC BE ARRANGED				
595	HIED SEMINAR III		C2.0	CR	
	PREREQ	CONSENT OF INSTRUCTOR			
1	01.30-03.20	MTWTF	WHAM	208	
	MTS JUNE 16-27 TOPIC PERSONNEL WORK IN THE JR COLL				
599	THESIS		01.0 TO 09.0	CR	
1*	TC BE ARRANGED				
600	DISSERTATION		01.0 TO 48.0	CR	
	PREREQ	MINIMUM OF 36 HRS TO BE EARNED FOR DOCTOR OF PHIL			
1*	TC BE ARRANGED				

## History (HIST)

309	NEGRO IN AMERICA		C4.0	CR	
1	08.30-09.20	TWTF	MAIN	201	MURPHY
322B	ENG HIST- 1603-1815		C4.0	CR	
1	08.30-09.20	MTWTF	MAIN	102	CHERRY
332B	MEDIEVAL HISTORY		C3.0	CR	
1	09.30-10.20	MTWTF	MAIN	201	ERHIN
333C	EUR HIST-20TH CENT		C3.0	CR	
1	11.30-12.20	MTWTF	MAIN	102	CDAY
352B	LATIN AMER-INDEPEND		C3.0	CR	
1	07.30-08.20	MWTF	MAIN	206	WERLICH
365A	HIST CHINESE CIVIL		C3.0	CR	
	PREREQ	6 HRS OF 300-LEVEL SOC SCIENCE CR CONSENT OF INSTR			
1	07.30-08.20	MWTF	MAIN	209	KUC
401B	HIST OF SOUTH-NEW		C3.0	CR	
1	11.30-12.20	TWTF	MAIN	102A	MURPHY
410	SPECIAL READINGS		C2.0 TO 05.0	CR	
	PREREQ	CONSENT OF DEPT			
1	TC BE ARRANGED				



414C	INTELLECTUAL-EUROPE			C3.0	CR	
1	11.30-12.20	M W F	MAIN	202	VYVERBERG	
417C	ADV ENG HIST			C3.0	CR	
1	09.30-10.20	M W F	MAIN	102	CHERRY	
425B	AMER COLONIAL HIST			C3.0	CR	
1	12.30-01.20	MT TH	MAIN	102	EATINSKI	
434B	SCC EUR 1870-1914			C3.0	CR	
1	09.30-10.20	T THF	MAIN	202	ZUCKER	
452	RESEARCH + THESIS			C3.0	CR	
1	12.30-04.20	W	PHY SC	410		
2	01.30-04.30	T	WHLR	203	EATINSKI	
465B	REV RUSS SINCE 1905			C3.0	CR	
1	10.30-11.20	MT TH	MAIN	102A	CDAY	
475A	DICTATORSHIP-LTN AM			C3.0	CR	
1	12.30-01.20	M W F	MAIN	102A	WERLICH	
500A	SEMINAR-AMER HIST		C4.0	TC 10.0	CR	
1	09.30-11.10	T TH	WHLR	203	CONRAD	
500B	SEMINAR-EUR HIST		C4.0	TC 10.0	CR	
1	01.30-03.10	M W	MAIN	202	VYVERBERG	
510	READINGS IN HISTORY		C2.0	TC C5.0	CR	
	PREREQ CONSENT OF DEPT					
1	TO BE ARRANGED					
515A	SEM 20TH CEN US HIS			C3.0	CR	
1	01.30-04.30	M	WHAM	301B	ALLEN	
516	STUDIES CONTEMP EUR			C4.0	CR	
1	01.30-03.20	T TH	MAIN	202	ZUCKER	
575C	STUDIES-LATIN AMER			C3.0	CR	
1	08.30-11.20	W	MAIN	202	WERLICH	
599	THESIS		C1.0	TC C9.0	CR	
1	TO BE ARRANGED					

### Home and Family (H & F)

227	FAMILY LIVING			C3.0	CR	
1	03.30-04.20	M W F	H EC	14CE	CARPENTER	
237	CHILD DEVELOPMENT			C3.0	CR	
1	12.30-01.20	M W F	H EC	14CE	ZUNICH	
300	HOME EC FOR MEN			C3.0	CR	
1	02.30-03.20	M W F	H EC	14CE	FEISLER	
323	FOCUSING			C2.0	CR	
1	09.30-10.20	T	H EC	203	CRAIG	
	08.30-10.20	TH	H EC	5		
2	09.30-10.20	T	H EC	203	CRAIG	
	09.30-11.20	F	H EC	5		
331	MGT OF FAMILY RES			C3.0	CR	
1	01.30-02.30	M W F	H EC	14CE		
332	HOME MGT RESIDENCE			C4.0	CR	
	PREREQ H+F 227,331					
1	TO BE ARRANGED				MALCNE	
341	CONSUMER PROBLEMS			C4.0	CR	
1	07.30-08.20	MT THF	H EC	14CE	CRAIG	
407	WORKSHOP			C2.0	TC C8.0	CR
1	07.30-09.20	MTWTHF	H EC	12C	JOHNSTON	
	JULY 14-25, EQUIPMENTS' IMPACT ON WORK IN THE HOME					
2	09.30-11.20	MTWTHF	H EC	12C	CARPENTER	
	JUNE 16-27, PERSONAL PROBLEMS IN FAMILY LIFE-EDUCATION					
3	02.30-04.30	MTWTHF	H EC	12C	ZUNICH	
	JUNE 16-27, BLACK AMERICAN CHILD					
456	INFANT DEVELOPMENT			C4.0	CR	
	PREREQ 237 CR PSYC 301 CR EQUIVALENT					
1	09.30-11.20	MTWTHF	H EC	12C	ZUNICH	
	JUNE 30-JULY 25					
481	READINGS			C2.0	TC C4.0	CR
	PREREQ CONSENT OF INSTRUCTOR AND CHAIRMAN					
1*	TO BE ARRANGED					
571	REC RESEARCH H EC			C4.0	CR	

1*	12.30-02.20	MTWTF	H EC	5	JOHNSTON
572	SPECIAL PROBLEMS		C2.C TC C8.0 CR		
1*	TC BE ARRANGED				
599	THESIS		C5.C TC C9.0 CR		
1*	TC BE ARRANGED				

### Home Economics Education (HEED)

309A	PROGRAM PLANNING			C3.C CR	
	PREREQ	GUID 305, S EC 31C			
1	12.30-01.20	M W F	F EC	203	
313	SPECIAL PROBLEMS		C2.C TC C4.0 CR		
	PREREQ	309			
1	TC BE ARRANGED				
371	FIELD EXPERIENCE			C6.0 CR	
	PREREQ	370			
1	TC BE ARRANGED				
415	INTRO TO GRAD STUDY			C1.0 CR	
1*	12.30-01.20		F H EC	133	FULTS
481	READINGS		C2.C TC C6.C CR		
	PREREQ	CONSENT OF INSTRUCTOR AND CHAIRMAN OF DEPARTMENT			
1	TC BE ARRANGED				
500	RESEARCH METHODS			C4.0 CR	
	PREREQ	GUID 422B OR CONSENT OF INSTRUCTOR			
1*	01.30-02.20	MTWTF	H EC	120	FULTS
507	WORKSHOP		C2.C TC C8.0 CR		
1	07.30-09.20	MTWTF	F EC	133	FULTS
	JUNE 16-JULY 11, WAGE EARNING IN THE HIGH SCHOOL				
2*	07.30-09.20	MTWTF	H EC	122A	
	WK 1+8-CAMPUS, REST FIELD EXP, TCH F EC INNER CITIES				
3	09.30-11.20	MTWTF	H EC	133	KEENAN
	JUNE 16-JULY 11, POST F S VOCATIONAL TECH PROGRAMS				
4	02.30-04.20	MTWTF	H EC	133	KEENAN
	JULY 14-AUGUST 8, CONCEPTS AND GENERALIZATIONS				
5	02.30-04.30	MTWTF	H EC	133	
	JUNE 30-JULY 4, SUPERVISION FOR COOPERATING TEACHERS				
572	SPECIAL PROBLEMS		C2.C TC C8.0 CR		
1	TC BE ARRANGED				
573	SEM-RES IN HOME EC		C1.C TC C6.0 CR		
	PREREQ	CONSENT OF INSTRUCTOR			
1*	03.30-04.20	TH	H EC	122A	
599	THESIS		C5.C TC C9.0 CR		
1*	TC BE ARRANGED				FULTS
600	DISSERTATION		C3.C TC 48.C CR		
1*	TC BE ARRANGED				FULTS

### Industrial Technology (IT)

100	ORIENTATION			C2.C CR	
1	03.30-04.20	T TH	TECH A	111	
300A	PLASTIC PROCESS			C4.0 CR	
	PREREQ	GSA 101E			
1	03.30-04.20	M W F	TECH A	208	
	01.30-03.20	M	TECH D	148	
2	03.30-04.20	M W F	TECH A	208	
	01.30-03.20	F	TECH D	148	
314B	CASTING-METAL FORM			C3.0 CR	
	PREREQ	MATH 111B			
1	08.30-09.20	M W	TECH A	210	
	08.30-10.20	T	TECH D	148	
2	08.30-09.20	M W	TECH A	210	
	10.30-12.20	T	TECH D	148	
318C	INDUSTRIAL WELDING			C3.0 CR	
1	07.30-08.20	M W	TECH A	222	
	07.30-09.20	TH	TECH D	148	
2	07.30-08.20	M W	TECH A	222	
	07.30-09.20	F	TECH D	148	

319	INDUSTRIAL INTERN	C3.C TC 24.C CR
	PREREG CONSENT OF INSTRUCTOR	
1	TC BE ARRANGED	
325A	METAL REMOV PROCESS	C3.C CR
	PREREG MATH 111B	
1	12.30-01.20 M W	TECH A 208
	01.30-03.20 W	TECH D 14B
2	12.30-01.20 M W	TECH A 208
	10.30-12.20 TH	TECH D 14B
351B	PRODCT CONTROL	C3.C CR
	PREREG JUNIOR STANDING	
1	09.30-10.20 M W F	TECH A 222

### Instructional Materials (I M)

308	INTRO TC CATALOGING	C4.C CR
1*	10.30-11.20 MTWTF	PULL 320 CCX
403	SCH LIB FUN MGT	C4.C CR
1*	09.30-10.20 MTWTF	PULL 320 FLETCHER
405	LIB MAT FOR CHILD	C4.C CR
	PREREG OPEN TO JUNIORS WITH CONSENT OF INSTRUCTOR	
1	07.30-08.20 MTWTF	PULL 320 FLETCHER
407	BASIC REF SOURCES	C4.C CR
1*	03.30-04.20 MTWTF	WHAM 318 KILPATRICK
413	CAT OF NON-BOOK MAT	C4.C CR
	PREREG 308	
1*	08.30-09.20 MTWTF	PULL 320
417	A-V METH IN EDUC	C4.C CR
1*	07.30-08.20 MTWTF	LAWSON 121 MCCRE
2	08.30-09.20 MTWTF	LAWSON 121 MCCRE
3*	09.30-10.20 MTWTF	LAWSON 221 EDWARDS
4*	10.30-11.20 MTWTF	LAWSON 101 BUTTS
5*	11.30-12.20 MTWTF	LAWSON 121 MCCRE
6*	12.30-01.20 MTWTF	LAWSON 221 PLANING
7*	01.30-02.20 MTWTF	LAWSON 101 EDWARDS
8*	02.30-03.20 MTWTF	LAWSON 101 PLANING
445	PREP TEACH-MADE MAT	C4.C CR
	PREREG 417 CR CONSENT OF INSTRUCTOR	
1*	07.30-09.20 MTWTF	WHAM 305 MCCRE
2*	10.30-12.20 MTWTF	WHAM 305 WHITE
450	CLASSROOM TV TCHG	C2.C CR
1	08.30-10.20 MTWTF	LAWSON 101 PLANING
	12.30-02.20 MTWTF	LAWSON 231
	AUG 11 - AUG 15	
510	MASS COMM IN EDUC	C4.C CR
1*	12.30-01.20 MTWTF	PULL 320 BUTTS
523	SEMINAR-JR CCL LIB	04.0 CR
1*	03.30-05.20 MTWTF	PULL 320
	JUNE 17 - JULY 11	
546	INTEG A-V MATERIALS	C4.C CR
	PREREG 417, CONSENT OF INSTRUCTOR	
1	01.30-03.20 MTWTF	PULL 320
	JUNE 17 - JULY 11	
549	VISUAL LEARNING	C4.C CR
	PREREG CONSENT OF INSTRUCTOR	
1	11.30-12.20 MTWTF	PULL 320 WENDT
576	PROB INST MAT	C2.C TC 08.0 CR
	PREREG CONSENT OF INSTRUCTOR	
1*	TC BE ARRANGED	
599	THESIS	C5.C TC 09.0 CR
1*	TC BE ARRANGED	
600	DISSERTATION	C1.C TC 48.0 CR
1*	TC BE ARRANGED	

### Journalism (JRNL)

101	INTRO TC JCURN I	C3.C CR
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1 09.30-10.20 M W F WFAM 308 CLAYTON  
 102 INTRC TC JCURN II C3.C CR  
 1 07.30-08.20 M W F LAWSON 201 CLAYTON  
 103 THE NEWS C3.C CR  
 1 07.30-08.20 M F C834 101 MATHESON  
 07.30-09.20 W C834 101  
 2 10.30-11.20 M W C834 101 MATHESON  
 09.30-11.20 F C834 101  
 JRNL 103 LIMITED TO STUDENTS WFC HAVE FAD  
 JRNL 101,102 CR 345,346  
 201 NEWSWRIT EDIT I C3.C CR  
 1 08.30-09.20 W C832 122 GRIFFA  
 2 08.30-09.20 W C832 122 GRIFFA  
 JRNL 201 LIMITED TO THOSE WFC HAVE FAD 103  
 202 NEWSWRIT EDIT II C3.C CR  
 1 08.30-09.20 M F C834 101 GRANATA  
 07.30-09.20 T C834 101  
 JRNL 202 LIMITED TO THOSE WFC HAVE FAD 103  
 303 NEWS + EDIT III C3.C CR  
 1 08.30-09.20 TH C834 101 FIX  
 TC BE ARRANGED  
 JRNL 303 LIMITED TO THOSE WFC HAVE FAD 202  
 330 EDITORIAL WRITING C3.C CR  
 1 09.30-10.20 M W F C834 137 LAWHERNE  
 JRNL 330 LIMITED TO THOSE WFC HAVE FAD 303  
 345 HIST OF JCURN C3.C CR  
 1 01.30-02.20 M W F TECH A 222 FART  
 370 PRIN OF ADVERTISING C3.C CR  
 PREREQ ECCN 205  
 1 09.30-10.20 M W F COMM 116 FILEMAN  
 371 ADVERTISING SALES C3.C CR  
 PREREQ 370  
 1 02.30-03.20 M W F COMM 122  
 372 AD COPY LAYOUT PRCD C5.C CR  
 1 08.30-09.20 MTWTF TECH A 310  
 09.30-10.20 T TH AG 222  
 JRNL 372 LIMITED TO THOSE WFC HAVE FAD 370  
 376 ADVER CAMPAIGNS C4.C CR  
 PREREQ CCNSENT OF INSTRUCTOR  
 1 01.30-02.20 TH TECH A 308 FILEMAN  
 383A NP PRCD MANAGEMENT C3.C CR  
 1 09.30-10.20 M WTH C834 101 BROWN  
 2 11.30-12.20 M W F C834 101 LAWHERNE  
 383B NP PRCD MANAGEMENT C3.C CR  
 1 10.30-11.20 M W C834 122A BROWN  
 10.30-11.20 TH WHAM 307  
 385 RADIC-TV SPEC EVENT C1.C TC C4.C CR  
 1 01.30-02.20 T COMM 144 DUGAS  
 390 ADVANCED REPORTING C3.C CR  
 1 02.30-03.20 M W F COMM 116  
 JRNL 390 LIMITED TO THOSE WFC HAVE FAD 303  
 391 FEATURE WRITING C3.C CR  
 1 08.30-09.20 M F H EC 202  
 08.30-09.20 W WHAM 302  
 395 SENIOR SEMINAR C1.C CR  
 1 11.30-12.20 T C834 101 FRAZER  
 JRNL 395 LIMITED TO GRADUATING SENIORS  
 421 SCHOOL PUBLICATIONS C4.C CR  
 1\* 09.30-10.20 MTWTF TECH D 131 RICE  
 432 FOUND MASS COMM THE C3.C CR  
 1 08.30-09.20 M W WHAM 301B ATWOOD  
 08.30-09.20 F COMM 118  
 01.30-02.20 T H EC 102  
 433B RESEARCH METHODS C3.C CR  
 1 10.30-11.20 M W F AG 218 RUCKER  
 01.30-03.20 TH TECH A 208



449	PRACTICUM	C2.C TC C8.C CR	
1	TC BE ARRANGED		LONG
533	RESEARCH PROB-JRNL	C1.C TC C4.C CR	
1	TC BE ARRANGED		RUCKER
545	STUDIES IN JRNL HIS	C3.0 CR	
1	06.00-09.00 PM	W HAM 212	FART
599	THESIS	C1.C TC C8.0 CR	
1	TC BE ARRANGED		RUCKER
600	DISSERTATION	C1.C TC 48.C CR	
1	TC BE ARRANGED		RUCKER

### Management (MGT)

340	BUS-CRG AND MGT	C4.0 CR	
	PREREQ GSB 201B AND C, CR EQUIVALENT-JR STANDING CR CCNSENT		
1	09.30-10.20	ThTFF LAWSON 161	
361	RESEARCH IN BUS ADM	C4.0 CR	
	PREREQ MGT 340, GSC 102, 103, GSC 110 CR EQLIV CR CCNSENT		
1	07.30-08.20	MT TFF CL 24	
2	12.30-01.20	MT THF CL 24	
380	PRODUCTION MGT	C4.0 CR	
	PREREQ MGT 340, 345, MATH 15CA CR EQLIV. CR CCNSENT CF INST		
1	08.30-09.20	MT TFF PHY SC 218	
385	PERSONNEL MGT	C4.0 CR	
	PREREQ MGT 340, GSC 110 CR EQUIVALENT, CR CCNSENT CF INSTR		
1	10.30-11.20	MT THF LAWSON 201	
440	THE MGT PROCESS	C4.0 CR	
	PREREQ MBA STUDENT		
1	09.30-10.20	MTWThFF AG 188	
479	PRCBS BUS AND ECON	C4.0 CR	
	PREREQ 340, ECCN 215, 308 CR 408 CR EQLIV, MKTG 301 CR EQLIV		
1	12.30-02.20	M W CL 109	
2	02.30-04.20	M W CL 109	
480	REC PRCB-LABOR LAW	C4.0 CR	
	PREREQ FIN 371 OR ECCN 310 CR GOVT 355, CR CCNSENT CF INST		
1	11.30-12.20	MT TFF AG 202	
481	ADMINISTRATIVE PCL	C4.0 CR	
	PREREQ MGT 340, FIN 320, MKTG 301 OR EQUIV, + SR STANDING		
1	08.30-10.20	W WHAM 326	
	08.30-10.20	F AG 222	
2	10.30-12.20	W F WHAM 202	
3	01.30-03.20	T Th WHAM 112	
485	PRCBS PERS MGT	C4.0 CR	
	PREREQ MGT 385, ECCN 308 OR 408, MGT 361		
1	10.30-12.20	T Th H EC 203	

### Marketing (MKTG)

301	MKTG FUNDAMENTALS	C4.0 CR	
	PREREQ ECCN 214, 215		
1	09.30-10.20	ThTFF LAWSON 231	
2	01.30-02.20	MTWTh LAWSON 131	
335	INTERNATIONAL MKTG	C4.0 CR	
	PREREQ 325		
1	12.30-02.20	M W H EC 121	
363	PROMOTIONAL CONCEPT	C4.0 CR	
	PREREQ MKTG 301		
1	10.30-11.20	ThTFF LAWSON 221	
390	MKTG RES + ANAL	C4.0 CR	
	PREREQ MKTG 301		
1	09.30-10.20	ThTFF CL 109	
438	SALES MANAGEMENT	C4.0 CR	
	PREREQ 325 AND 337		
1	07.30-09.20	T Th H EC 206	
439	IND MARKETING MGMT	C4.0 CR	
	PREREQ 325 AND 336		

1	08.30-10.20	M	CL	105
	08.30-10.20	W	F EC	206
463	ADVERTISING MANAG		C4.0 CR	
	PREREQ 325 AND 333			
1	10.30-12.20	T TH	CL	105

# **Mathematics (MATH)**

111A	CCL ALGEBRA TRIG		C5.0 CR	
	PREREQ GSD 106 OR FS ECLIV			
1	07.30-08.20	MTWTF	TECH A	208
2	09.30-10.20	MTWTF	TECH A	208
3	10.30-11.20	MTWTF	H EC	118
4	11.30-12.20	MTWTF	TECH A	208
5	01.30-02.20	MTWTF	TECH A	322
6	03.30-04.20	MTWTF	TECH A	308
111B	CCL ALGEBRA TRIG		C5.0 CR	
	PREREQ MATH 111A			
1	07.30-08.20	MTWTF	TECH A	308
2	08.30-09.20	MTWTF	TECH A	208
3	12.30-01.20	MTWTF	TECH A	210
4	02.30-03.20	MTWTF	TECH A	220
15CA	ELEM CALC-ANAL GEOM		C5.0 CR	
	PREREQ MATH 111B			
1	07.30-08.20	MTWTF	TECH A	310
2	10.30-11.20	MTWTF	TECH A	322
3	02.30-03.20	MTWTF	TECH A	310
15CB	ELEM CALC-ANAL GEOM		C5.0 CR	
	PREREQ MATH 15CA			
1	08.30-09.20	MTWTF	TECH A	320
2	01.30-02.20	MTWTF	TECH A	310
252A	INTER CALC-ANAL GEO		C5.0 CR	
	PREREQ MATH 15CB			
1	09.30-10.20	MTWTF	TECH A	310
252B	INTER CALC-ANAL GEO		C4.0 CR	
	PREREQ MATH 252A			
1	10.30-11.20	M WTHF	PHY SC	118
301	FUNDAMENTAL CONCEPT		C3.0 CR	
	PREREQ MATH 15CB			
1	01.30-03.20	T	TECH A	320
	02.30-03.20	M WTHF	TECH A	320
	JUNE 17 - JULY 22			
305A	MATH PHYS SCIENCES		C3.0 CR	
	PREREQ MATH 252B			
1	08.30-09.20	M WTHF	TECH A	322
	07.30-09.20	T	TECH A	322
	JUNE 17 - JULY 22			
305B	MATH PHYS SCIENCES		C3.0 CR	
	PREREQ MATH 305A			
1	08.30-09.20	M WTHF	TECH A	322
	07.30-09.20	T	TECH A	322
	JULY 23 - AUG 29			
310	TEACHING ELEM MATH		C4.0 CR	
	PREREQ GSD 108B			
1*	08.30-09.20	MTWTHF	TECH D	131
2	10.30-11.20	MT THF	PHY SC	218
3*	10.30-11.20	M W	TECH A	308
	10.30-11.20	T THF	TECH A	310
4*	01.30-02.20	MTWTHF	TECH D	131
319	INTR-ABSTRACT ALG		C3.0 CR	
	PREREQ MATH 301 OR CONSENT OF DEPT			
1	01.30-03.20	T	TECH A	320
	02.30-03.20	M WTHF	TECH A	320
	JULY 23 - AUG 29			
335A	CONCEPTS OF GEOM		C3.0 CR	
	PREREQ MATH 252A			

1	09.30-10.20	M W T F F	TECH A	308
	09.30-11.20	T	PHY SC	116
JUNE 17 - JULY 22				
335E	CONCEPTS OF GEOM		C3.C	CR
	PREREQ MATH 335A			
1	09.30-10.20	M W T F F	TECH A	308
	09.30-11.20	T	PHY SC	116
JULY 23 - AUGUST 9				
419A	ALGEBRAIC STRUCTURE		C3.C	CR
	PREREQ MATH 301			
1	11.30-01.20	T	TECH A	320
	12.30-01.30	M W T F F	TECH A	322
JUNE 17 - JULY 22				
419E	ALGEBRAIC STRUCTURE		C3.C	CR
	PREREQ MATH 419A			
1	11.30-01.20	T	TECH A	320
	12.30-01.20	M W T F F	TECH A	322
JULY 23 - AUGUST 29				
421A	LINEAR ALGEBRA		C3.C	CR
	PREREQ MATH 252B			
1	01.30-02.20	M W T F F	TECH A	210
	01.30-03.20	T	TECH A	210
JUNE 17 - JULY 22				
421E	LINEAR ALGEBRA		C3.C	CR
	PREREQ MATH 421A			
1	01.30-02.20	M W T F F	TECH A	210
	01.30-03.20	T	TECH A	210
JULY 23 - AUGUST 29				
430	PROJECTIVE GEOMETRY		C4.C	CR
1*	12.30-01.20	M T W T F F	TECH A	310
440	MOD ALG FOR TEACH		C4.C	CR
1*	08.30-09.20	M T W T F F	TECH A	308
NATIONAL SCIENCE FOUNDATION STUDENTS ONLY				
442	SURVEY OF GEOMETRY		C4.C	CR
1*	09.30-10.20	M T W T F F	TECH A	320
NATIONAL SCIENCE FOUNDATION STUDENTS ONLY				
444	SETS FUNCT RELATION		C4.C	CR
1*	01.30-02.20	M T W T F F	H EC	122
NATIONAL SCIENCE FOUNDATION STUDENTS ONLY				
445	FUND CONCEPTS-CALC		C4.C	CR
1*	10.30-11.20	M T W T F F	TECH A	210
NATIONAL SCIENCE FOUNDATION STUDENTS ONLY				
458A	FINITE MATHEMATICS		C3.C	CR
	PREREQ MATH 252A			
1	11.30-01.20	T	TECH A	322
	11.30-12.20	M W T F F	TECH A	322
JUNE 17 - JULY 22				
458E	FINITE MATHEMATICS		C3.C	CR
	PREREQ MATH 458A			
1	11.30-01.20	T	TECH A	322
	11.30-12.20	M W T F F	TECH A	322
JULY 23 - AUGUST 29				
540	GROUP AND LIN TRANS		C4.C	CR
	PREREQ MATH 440 CR EQUIV			
1*	08.30-09.20	M T W T F F	H EC	118
NATIONAL SCIENCE FOUNDATION STUDENTS ONLY				
543	PRCB FOR TEACHERS		C4.0	CR
	PREREQ CONSENT OF DEPT CR INSTITUTE DIRECTOR			
1*	01.30-02.20	M T W T F F	TECH A	201
NATIONAL SCIENCE FOUNDATION STUDENTS ONLY				
545	INTER ANAL HS TEACH		C4.0	CR
1*	10.30-11.20	M T W T F F	TECH A	222
NATIONAL SCIENCE FOUNDATION STUDENTS ONLY				
547	SEC SCH MATH PRCG		C3.C	CR
1*	01.30-02.20	T T F	TECH A	302
	02.30-03.20	T T F	WHAM	201
NATIONAL SCIENCE FOUNDATION STUDENTS ONLY				

550A	SEMINAR IN ALGEBRA		C3.0 CR	
	PREREQ	CCONSENT OF INSTP		
1	11.30-12.20	MTWTF	TECH A	210
550C	SEMINAR IN ANALYSIS		C3.0 CR	
	PREREQ	CCONSENT OF INSTR		
1	02.30-04.20	T	TECH A	322
	02.30-03.20	M W T F F	TECH A	322
	JULY 23 - AUGUST 29			
550C	SEM IN PRCB + STAT		C3.0 CR	
	PREREQ	CONSENT OF INSTR		
1	02.30-04.20	T	TECH A	322
	02.30-03.20	M W T F F	TECH A	322
	JUNE 17 - JULY 22			
550C	SEMINAR-TCPCLCGY		C3.0 CR	
	PREREQ	CONSENT OF INSTR		
1	09.30-10.20	MTWTF	TECH A	322
592	RESEARCH-MATH EDUC		C2.0 TO C4.0 CR	
	PREREQ	CONSENT OF DEPT CHAIRMAN		
1*	02.30-03.20	M W F	TECH A	201
595A	SP PR CJ ALGEBRA		C1.0 TO 10.0 CR	
1	TC BE ARRANGED			
595B	SP PR CJ GEOMETRY		C1.0 TO 10.0 CR	
1	TC BE ARRANGED			
595C	SP PR CJ ANALYSIS		C1.0 TO 10.0 CR	
1	TC BE ARRANGED			
595D	SP PR CJ PROB + STAT		C1.0 TO 10.0 CR	
1	TC BE ARRANGED			
595F	SP PR CJ LOGIC + FCU		C1.0 TO 10.0 CR	
1	TC BE ARRANGED			
595G	SP PR CJ TCPCLCGY		C1.0 TO 10.0 CR	
1	TC BE ARRANGED			
599	THESIS		C1.0 TO C9.0 CR	
1	TC BE ARRANGED			
600	DISSERTATION		C3.0 TO 12.0 CR	
1	TC BE ARRANGED			

### Microbiology (MICR)

390	UNDERGRAD RES PART		C2.0 TO C5.0 CR	
	PREREQ	4.00 GPA IN MICR AND/OR CONSENT OF DEPARTMENT		
1	TC BE ARRANGED			
511	RESEARCH		C1.0 TO 15.0 CR	
1	TC BE ARRANGED			
528	READINGS IN MICRO		C1.0 TO 10.0 CR	
1	TC BE ARRANGED			
599	THESIS		C3.0 TO C9.0 CR	
1	TC BE ARRANGED			
600	DISSERTATION		C3.0 TO 48.0 CR	
1	TC BE ARRANGED			

### Music (MUS)

001B	SYMPHONIC BAND		C1.0 CR	
	PREREQ	CONSENT OF INSTRUCTOR		
1	03.30-05.00	M W	ALTG	114 SIENER + KCENIGSTEIN
001C	STAGE BAND		C1.0 CR	
	PREREQ	AUDITION		
1	TC BE ARRANGED LEMASTERS			
002A	UNIVERSITY CHOIR		C1.0 CR	
	PREREQ	AUDITION		
1	02.30-03.20	MTWTF	ALTG	115 KINGSBURY
	JUNE 18 - JULY 25			
002C	MALE GLEE CLUB		C1.0 CR	
	PREREQ	AUDITION		
1	03.30-04.20	MTWTF	ALTG	115 KINGSBURY
	JUNE 18-JULY 25			



003B	SOUTHERN ILL SYMPH				C1.0 CR	
	PREREQ CONSENT OF INSTRUCTOR					
1	07.15-09.30 PM	T	H EC	114	LEVINSON	
	03.30-05.00	TH	ALTC	114		
	JUNE 17-JULY 25					
010A	CLASS APP-STRINGS				C1.0 CR	
1	TC BE ARRANGED				WHARTON	
010B	CLASS APP-WOODWINDS				C1.0 CR	
1	TC BE ARRANGED				WOCTERS	
010C	CLASS APP-BRASS				C1.0 CR	
1	TC BE ARRANGED				LEMASTERS + NADAF	
010E	CLASS APP-PIANO				C1.0 CR	
1	10.30-11.20	M W	ALTC	301	BEDFCRC	
2	10.30-11.20	T TH	ALTC	301	BEDFCRC	
3	11.30-12.20	M W	ALTC	301	BEDFCRC	
4	11.30-12.20	T TH	ALTC	301	BEDFCRC	
5	03.30-04.20	T TH	ALTC	301	BEDFCRC	
010F	CLASS APP-VOICE				C1.0 CR	
1	10.30-11.20	M W	ALTC	106	WATERMAN	
105C	THEORY OF MUSIC				C4.0 CR	
1	08.30-09.20	MTWTHF	ALTC	106	FUSSEY + WERNER	
140A	PRIV APP MUS-VIOLIN				C1.0 TO C4.0 CR	
	PREREQ MUS CCNC CR SECNDARY CCNC CR				CONSENT OF MUS FACULTY	
1	TC BE ARRANGED				LEVINSON	
140B	PRIV APP MUS-VIOLA				C1.0 TO C4.0 CR	
	PREREQ MUS CCNC CR SECNDARY CCNC CR				CONSENT OF MUS FACULTY	
1	TC BE ARRANGED				WHARTON	
140C	PRIV APP MUS-CELLO				C1.0 TO C4.0 CR	
	PREREQ MUS CCNC CR SECNDARY CCNC CR				CONSENT OF MUS FACULTY	
1	TC BE ARRANGED				HOUSE	
140D	PRIV APP MUS-STRING				C1.0 TO C4.0 CR	
	PREREQ MUS CCNC CR SECNDARY CCNC CR				CONSENT OF MUS FACULTY	
1	TC BE ARRANGED				HOUSE	
140E	PRIV APP MUS-FLUTE				C1.0 TO C4.0 CR	
	PREREQ MUS CCNC CR SECNDARY CCNC CR				CONSENT OF MUS FACULTY	
1	TC BE ARRANGED				WOCTERS	
140F	PRIV APP MUS-OBOE				C1.0 TO C4.0 CR	
	PREREQ MUS CCNC CR SECNDARY CCNC CR				CONSENT OF MUS FACULTY	
1	TC BE ARRANGED				FUSSEY	
140G	PRIV APP MUS-CLAR				C1.0 TO C4.0 CR	
	PREREQ MUS CCNC CR SECNDARY CCNC CR				CONSENT OF MUS FACULTY	
1	TC BE ARRANGED				WOCTERS	
140H	PRIV APP MUS-BASSON				C1.0 TO C4.0 CR	
	PREREQ MUS CCNC CR SECNDARY CCNC CR				CONSENT OF MUS FACULTY	
1	TC BE ARRANGED				INTRAVIA	
140I	PRIV APP MUS-SAX				C1.0 TO C4.0 CR	
	PREREQ MUS CCNC CR SECNDARY CCNC CR				CONSENT OF MUS FACULTY	
1	TC BE ARRANGED				WOCTERS	
140J	PRIV APP MUS-PERCUS				C1.0 TO C4.0 CR	
	PREREQ MUS CCNC CR SECNDARY CCNC CR				CONSENT OF MUS FACULTY	
1	TC BE ARRANGED				FLYCE	
140K	PRIV APP MUS-PIANO				C1.0 TO C4.0 CR	
	PREREQ MUS CCNC CR SECNDARY CCNC CR				CONSENT OF MUS FACULTY	
1	TO BE ARRANGED				MUELLER + WERNER	
2	TC BE ARRANGED				DENKER	
3	TC BE ARRANGED				GRIZZELL	
4	TC BE ARRANGED				BARWICK	
140L	PRIV APP MUS-F HORN				C1.0 TO C4.0 CR	
	PREREQ MUS CCNC CR SECNDARY CCNC CR				CONSENT OF MUS FACULTY	
1	TC BE ARRANGED				STIMAN + NADAF	
140M	PRIV APP MUS-TRUMP				C1.0 TO C4.0 CR	
	PREREQ MUS CCNC CR SECNDARY CCNC CR				CONSENT OF MUS FACULTY	
1	TC BE ARRANGED				LEMASTERS	
140N	PRIV APP MUS-TRBONE				C1.0 TO C4.0 CR	
	PREREQ MUS CCNC CR SECNDARY CCNC CR				CONSENT OF MUS FACULTY	
1	TC BE ARRANGED				STIMAN + NADAF	

140C	PRIV APP	MUS-TUBA	C1.0 TO C4.0 CR	
	PREREQ	MUS CCNC CR	SECONDARY CCNC CR	CONSENT OF MUS FACULTY
1	TC BE	ARRANGED		STIMAN + NADAF
140P	PRIV APP	MUS-BATONE	C1.0 TO C4.0 CR	
	PREREQ	MUS CCNC CR	SECONDARY CCNC CR	CONSENT OF MUS FACULTY
1	TC BE	ARRANGED		STIMAN + NADAF
140Q	PRIV APP	MUS-VICE	C1.0 TO C4.0 CR	
	PREREQ	MUS CCNC CR	SECONDARY CCNC CR	CONSENT OF MUS FACULTY
1	TC BE	ARRANGED		WATERMAN
140R	PRIV APP	MUS-CRGAN	C1.0 TO C4.0 CR	
	PREREQ	MUS CCNC CR	SECONDARY CCNC CR	CONSENT OF MUS FACULTY
1	TC BE	ARRANGED		WEBB
140S	PRIV APP	MUS-HARPCH	C1.0 TO C4.0 CR	
	PREREQ	MUS CCNC CR	SECONDARY CCNC CR	CONSENT OF MUS FACULTY
1	TC BE	ARRANGED		MORGAN
200	FUNDAMENTALS-MUSIC		C3.0 CR	
1	09.30-10.20	M W F	ALTC	248 GRIZZELL + INTRAVAIA
240A	PRIV APP	MUS-VICLIN	C1.0 TO C4.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL CN	SAME INSTR CR	CONSENT
1	TC BE	ARRANGED		LEVINSOHN
240B	PRIV APP	MUS-VICLA	C1.0 TO C4.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL CN	SAME INSTR CR	CONSENT
1	TC BE	ARRANGED		WHARTON
240C	PRIV APP	MUS-CELLC	C1.0 TO C4.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL CN	SAME INSTR CR	CONSENT
1	TC BE	ARRANGED		HOUSE
240D	PRIV APP	MUS-STRING	C1.0 TO C4.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL CN	SAME INSTR CR	CONSENT
1	TC BE	ARRANGED		HOUSE
240E	PRIV APP	MUS-FLUTE	C1.0 TO C4.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL CN	SAME INSTR CR	CONSENT
1	TC BE	ARRANGED		WOOTERS
240F	PRIV APP	MUS-CBCE	C1.0 TO C4.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL CN	SAME INSTR CR	CONSENT
1	TC BE	ARRANGED		FUSSEY
240G	PRIV APP	MUS-CLAR	C1.0 TO C4.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL CN	SAME INSTR CR	CONSENT
1	TC BE	ARRANGED		WOOTERS
240H	PRIV APP	MUS-BASSCN	C1.0 TO C4.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL CN	SAME INSTR CR	CONSENT
1	TC BE	ARRANGED		INTRAVAIA
240I	PRIV APP	MUS-SAX	C1.0 TO C4.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL CN	SAME INSTR CR	CONSENT
1	TC BE	ARRANGED		WOOTERS
240J	PRIV APP	MUS-PERCL	C1.0 TO C4.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL CN	SAME INSTR CR	CONSENT
1	TC BE	ARRANGED		FLYCE
240K	PRIV APP	MUS-PIANC	C1.0 TO C4.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL CN	SAME INSTR CR	CONSENT
1	TC BE	ARRANGED		MUELLER + WERNER
2	TC BE	ARRANGED		DENKER
3	TC BE	ARRANGED		GRIZZELL
4	TC BE	ARRANGED		BARWICK
240L	PRIV APP	MUS-F HORN	C1.0 TO C4.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL CN	SAME INSTR CR	CONSENT
1	TC BE	ARRANGED		STIMAN + NADAF
240M	PRIV APP	MUS-TRUMP	C1.0 TO C4.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL CN	SAME INSTR CR	CONSENT
1	TC BE	ARRANGED		LEMASTERS
240N	PRIV APP	MUS-TRBONE	C1.0 TO C4.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL CN	SAME INSTR CR	CONSENT
1	TC BE	ARRANGED		STIMAN + NADAF
240O	PRIV APP	MUS-TUBA	C1.0 TO C4.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL CN	SAME INSTR CR	CONSENT
1	TC BE	ARRANGED		STIMAN + NADAF
240P	PRIV APP	MUS-BATONE	C1.0 TO C4.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL CN	SAME INSTR CR	CONSENT

1	TC BE ARRANGED				STIMAN + NADAF
240C	PRIV APP MUS-VCICE	C1.0 TO C4.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CCNSENT				
1	TC BE ARRANGED				WATERMAN
240R	PRIV APP MUS-CRGA	C1.0 TO C4.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CCNSENT				
1	TC BE ARRANGED				WEBB
240S	PRIV APP MUS-HARPC	C1.0 TO C4.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CCNSENT				
1	TC BE ARRANGED				MORGAN
300B	EL METH-NCN MAJ 4-6	C3.0 CR			
	PREREQ 20C				
1*	11.30-12.20	MT THF	ALTC	248	TAYLOR
	JUNE 18-AUGUST 8				
300C	EL METH-NCN MAJ K-3	C3.0 CR			
	PREREQ 20C				
1*	10.30-11.20	MT THF	ALTC	248	TAYLOR
305I	INSTRUMENTAL PRCB	C3.0 CR			
1	09.30-10.20	M W F	ALTC	106	KENIGSTEIN
309A	ARRANGING	C2.0 CR			
	PREREQ 105C				
1	10.30-11.20	M W	ALTC	116	KENIGSTEIN
312A	COMPOSITION	C2.0 CR			
	PREREQ 205C				
1	TC BE ARRANGED				BOTTJE
318A	CONDUCTING	C2.0 CR			
1	10.30-11.20	T TH	ALTC	106	KENIGSTEIN
326A	ANALYSIS	C2.0 CR			
	PREREQ 205C				
1	09.30-10.20	T TH	ALTC	106	GRIZZELL + DENKER
340A	PRIV APP MUS-VICLIN	C1.0 TO C4.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CCNSENT				
1	TC BE ARRANGED				LEVINSOHN
340B	PRIV APP MUS-VICLA	C1.0 TO C4.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CCNSENT				
1	TC BE ARRANGED				WHARTON
340C	PRIV APP MUS-CELLC	C1.0 TO C4.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CCNSENT				
1	TC BE ARRANGED				FUSE
340D	PRIV APP MUS-STRING	C1.0 TO C4.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CCNSENT				
1	TC BE ARRANGED				FUSE
340E	PRIV APP MUS-FLUTE	C1.0 TO C4.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CCNSENT				
1	TC BE ARRANGED				WOOTERS
340F	PRIV APP MUS-CBOE	C1.0 TO C4.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CCNSENT				
1	TC BE ARRANGED				FUSSEY
340G	PRIV APP MUS-CLAR	C1.0 TO C4.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CCNSENT				
1	TC BE ARRANGED				WOOTERS
340H	PRIV APP MUS-BASSON	C1.0 TO C4.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CCNSENT				
1	TC BE ARRANGED				INTRAVIA
340I	PRIV APP MUS-SAX	C1.0 TO C4.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CCNSENT				
1	TC BE ARRANGED				WOOTERS
340J	PRIV APP MUS-PERCU	C1.0 TO C4.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CCNSENT				
1	TC BE ARRANGED				FLYCE
340K	PRIV APP MUS-PIANO	C1.0 TO C4.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CCNSENT				
1	TC BE ARRANGED				MUELLER + WERNER
2	TC BE ARRANGED				DENKER
3	TC BE ARRANGED				GRIZZELL
4	TC BE ARRANGED				BARWICK



34CL PRIV APP MUS-F HORN C1.0 TO C4.0 CR  
 PRREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CCNSENT  
 1 TC BE ARRANGED STIMAN + NADAF  
 340M PRIV APP MUS-TRUMP C1.0 TO C4.0 CR  
 PRREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CCNSENT  
 1 TC BE ARRANGED LEMASTERS  
 340N PRIV APP MUS-TRBCNE C1.0 TO C4.0 CR  
 PRREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CCNSENT  
 1 TC BE ARRANGED STIMAN + NADAF  
 340C PRIV APP MUS-TLBA C1.0 TO C4.0 CR  
 PRREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CCNSENT  
 1 TC BE ARRANGED STIMAN + NADAF  
 340P PRIV APP MUS-BATONE C1.0 TO C4.0 CR  
 PRREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CCNSENT  
 1 TC BE ARRANGED STIMAN + NADAF  
 340G PRIV APP MUS-VCICE C1.0 TO C4.0 CR  
 PRREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CCNSENT  
 1 TC BE ARRANGED WATERMAN  
 340R PRIV APP MUS-CRGM C1.0 TO C4.0 CR  
 PRREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CCNSENT  
 1 TC BE ARRANGED WEBB  
 340S PRIV APP MUS-HARPCB C1.0 TO C4.0 CR  
 PRREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CCNSENT  
 1 TC BE ARRANGED MORGAN  
 341 ACCOMPANYING LAB C1.0 CR  
 1 TC BE ARRANGED GRIZZELL  
 346 OPERA WORKSHOP C2.0 TO 36.0 CR  
 1 TC BE ARRANGED LAWRENCE  
 COURSE WILL MEET IN ARKANSAS JUNE 16-JULY 26  
 347 MUSIC THEATRE WKSP C2.0 TO 36.0 CR  
 1 08.30-12.20 MTWTF AG 102 TAYLER  
 07.00-10.00 PM MTWTF AG 102  
 357A MUS HIST + LIT C3.0 CR  
 PRREQ MUS 105C CR CCNSENT OF INSTRUCTOR  
 1 11.30-12.20 MTWTF ALTG 116 MORGAN  
 JUNE 18-AUGUST 8  
 365 CHAMBER MUSIC C1.0 CR  
 1 TC BE ARRANGED LEVINSON  
 JUNE 18 - JULY 25 FOR STRINGS  
 2 TC BE ARRANGED WOOTERS  
 SECT 3-WOODWIND  
 3 TC BE ARRANGED LEMASTERS + NADAF  
 SECT 4-BRASS  
 4 01.30-02.20 MTWTF ALTG 115 KINGSBURY  
 JUNE 18 - JULY 25 (VOCAL CHAMBER MUSIC)  
 420 MUS EDUC PRACTICUM C1.0 TO C3.0 CR  
 1 07.30-11.30 MTWTF 105 WHARTON  
 JUNE 23-JULY 3  
 431 DEV HS STAGE BAND C2.0 CR  
 PRREQ 430  
 1 11.30-12.20 MTWTF ALTG 106 STIMAN  
 JUNE 18-JULY 25  
 440A PRIV APP MUS-VICLIN C1.0 TO C4.0 CR  
 PRREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CCNSENT  
 1 TC BE ARRANGED LEVINSON  
 440B PRIV APP MUS-VICLA C1.0 TO C4.0 CR  
 PRREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CCNSENT  
 1 TC BE ARRANGED WHARTON  
 440C PRIV APP MUS-CELLC C1.0 TO C4.0 CR  
 PRREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CCNSENT  
 1 TC BE ARRANGED FOLSE  
 440D PRIV APP MUS-STRING C1.0 TO C4.0 CR  
 PRREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CCNSENT  
 1 TC BE ARRANGED FOLSE  
 440E PRIV APP MUS-FLUTE C1.0 TO C4.0 CR  
 PRREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CCNSENT



1	TC BE ARRANGED	WOCTERS
440F	PRIV APP MUS-CBCE C1.0 TO C4.0 CR	
	PREREQ 3 QTRS AT PREVCLS LEVEL CN SAME INSTR CR CCNSENT	
1	TC BE ARRANGED	FUSSEY
440G	PRIV APP MUS-CLAR C1.0 TO C4.0 CR	
	PREREQ 3 QTRS AT PREVCLS LEVEL CN SAME INSTR CR CCNSENT	
1	TC BE ARRANGED	WOCTERS
440H	PRIV APP MUS-BASSCN C1.0 TO C4.0 CR	
	PREREQ 3 QTRS AT PREVCLS LEVEL CN SAME INSTR CR CCNSENT	
1	TC BE ARRANGED	INTRAVAIA
440I	PRIV APP MUS-SAX C1.0 TO C4.0 CR	
	PREREQ 3 QTRS AT PREVCLS LEVEL CN SAME INSTR CR CCNSENT	
1	TC BE ARRANGED	WOCTERS
440J	PRIV APP MUS-PERCLS C1.0 TO C4.0 CR	
	PREREQ 3 QTRS AT PREVCLS LEVEL CN SAME INSTR CR CCNSENT	
1	TC BE ARRANGED	FLCYC
440K	PRIV APP MUS-PIANC C1.0 TO C4.0 CR	
	PREREQ 3 QTRS AT PREVCLS LEVEL CN SAME INSTR CR CCNSENT	
1	TC BE ARRANGED	MUELLER + WERNER
2	TC BE ARRANGED	DENKER
3	TC BE ARRANGED	GRIZZELL
4	TC BE ARRANGED	BARWICK
440L	PRIV APP MUS-F HGRN C1.0 TO C4.0 CR	
	PREREQ 3 QTRS AT PREVCLS LEVEL CN SAME INSTR CR CCNSENT	
1	TC BE ARRANGED	STIMAN + NADAF
440M	PRIV APP MUS-TRUMP C1.0 TO C4.0 CR	
	PREREQ 3 QTRS AT PREVCLS LEVEL CN SAME INSTR CR CCNSENT	
1	TC BE ARRANGED	LEMASTERS
440N	PRIV APP MUS-TRBCNE C1.0 TO C4.0 CR	
	PREREQ 3 QTRS AT PREVCLS LEVEL CN SAME INSTR CR CCNSENT	
1	TC BE ARRANGED	STIMAN + NADAF
440C	PRIV APP MUS-TLBA C1.0 TO C4.0 CR	
	PREREQ 3 QTRS AT PREVCLS LEVEL CN SAME INSTR CR CCNSENT	
1	TC BE ARRANGED	STIMAN + NADAF
440P	PRIV APP MUS-BATONE C1.0 TO C4.0 CR	
	PREREQ 3 QTRS AT PREVCLS LEVEL CN SAME INSTR CR CCNSENT	
1	TC BE ARRANGED	STIMAN + NADAF
440Q	PRIV APP MUS-VCICE C1.0 TO C4.0 CR	
	PREREQ 3 QTRS AT PREVCLS LEVEL CN SAME INSTR CR CCNSENT	
1	TC BE ARRANGED	WATERMAN
440R	PRIV APP MUS-ORGAN C1.0 TO C4.0 CR	
	PREREQ 3 QTRS AT PREVCLS LEVEL CN SAME INSTR CR CCNSENT	
1	TC BE ARRANGED	WEBB
440S	PRIV APP MUS-HARPCN C1.0 TO C4.0 CR	
	PREREQ 3 QTRS AT PREVCLS LEVEL CN SAME INSTR CR CCNSENT	
1	TC BE ARRANGED	MORGAN
444A	INTERMEDIATE CCMP C2.0 CR	
	PREREQ 312C AND CCNSENT OF DEPARTMENT	
1	TC BE ARRANGED	BOTTJE
481	READINGS IN THECRY C2.0 TO C6.0 CR	
1	TC BE ARRANGED	DENKER
2	TC BE ARRANGED	BOTTJE
	JUNE 23-JULY 5	
482	READ IN HIST + LIT C2.0 TO C6.0 CR	
1	TC BE ARRANGED	MORGAN
2	TC BE ARRANGED	BOTTJE
	JULY 7-19	
483	READ IN MUS EDUC C2.0 TO C6.0 CR	
1	TC BE ARRANGED	GORDCN
2	TC BE ARRANGED	BOTTJE
	JULY 21-AUG 2	
499	INDEPENDENT STUDY C1.0 TO C3.0 CR	
	PREREQ CONSENT OF INSTRUCTOR	
1	TC BE ARRANGED	GORDCN
501	INT GRAD ST IN MUS C3.0 CR	
1*	02.30-04.20 M h LIB 217 DENKER	

502A ANALYTIC TECHNIQUES C2.C CR  
1\* 01.30-02.20 T TH ALTG 24E MEULLER + WERNER

503 MUSIC ED RESEARCH C3.C CR  
1\* 12.30-01.20 M WTHF ALTG 116 GORDON

505 BAROQUE MUSIC C3.0 CR  
1 12.30-01.20 M W F ALTG 106 DENKER + BARWICK

509 HIST + PHIL MUS ED C3.0 CR  
1\* 02.30-04.20 T TH ALTG 106 FOLSE

531 ADV COMPOSITION C2.C TO C9.0 CR  
PREREQ 312C, 342C, AND CONSENT OF INSTRUCTOR  
1 TC BE ARRANGED ETTJE  
JUNE 9-21

540A PRIV APP MUS-VICLIN C1.0 TO C4.0 CR  
PREREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CONSENT  
1 TC BE ARRANGED LEVINSON

540B PRIV APP MUS-VICLA C1.0 TO C4.0 CR  
PREREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CONSENT  
1 TC BE ARRANGED WHARTON

540C PRIV APP MUS-CELLO C1.0 TO C4.0 CR  
PREREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CONSENT  
1 TC BE ARRANGED FOLSE

540D PRIV APP MUS-STRING C1.0 TO C4.0 CR  
PREREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CONSENT  
1 TC BE ARRANGED FOLSE

540E PRIV APP MUS-FLUTE C1.0 TO C4.0 CR  
PREREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CONSENT  
1 TC BE ARRANGED WOOTERS

540F PRIV APP MUS-OBOE C1.0 TO C4.0 CR  
PREREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CONSENT  
1 TC BE ARRANGED FUSSEY

540G PRIV APP MUS-CLAR C1.0 TO C4.0 CR  
PREREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CONSENT  
1 TC BE ARRANGED WOOTERS

540H PRIV APP MUS-BASSON C1.0 TO C4.0 CR  
PREREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CONSENT  
1 TC BE ARRANGED INTRAVAIA

540I PRIV APP MUS-SAX C1.0 TO C4.0 CR  
PREREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CONSENT  
1 TC BE ARRANGED WOOTERS

540J PRIV APP MUS-PERCUS C1.0 TO C4.0 CR  
PREREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CONSENT  
1 TC BE ARRANGED FLYC

540K PRIV APP MUS-PIANO C1.0 TO C4.0 CR  
PREREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CONSENT  
1 TC BE ARRANGED WERNER  
2 TC BE ARRANGED DENKER  
3 TC BE ARRANGED GRIZZELL  
4 TC BE ARRANGED BARWICK

540L PRIV APP MUS-F HORN C1.0 TO C4.0 CR  
PREREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CONSENT  
1 TC BE ARRANGED STIMAN + NADAF

540M PRIV APP MUS-TRUMP C1.0 TO C4.0 CR  
PREREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CONSENT  
1 TC BE ARRANGED LEMASTERS

540N PRIV APP MUS-TRBONE C1.0 TO C4.0 CR  
PREREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CONSENT  
1 TC BE ARRANGED STIMAN + NADAF

540O PRIV APP MUS-TUBA C1.0 TO C4.0 CR  
PREREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CONSENT  
1 TC BE ARRANGED STIMAN + NADAF

540P PRIV APP MUS-BATONE C1.0 TO C4.0 CR  
PREREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CONSENT  
1 TC BE ARRANGED STIMAN + NADAF

540Q PRIV APP MUS-VOICE C1.0 TO C4.0 CR  
PREREQ 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CONSENT  
1 TC BE ARRANGED WATERMAN

540R	PRIV APP MUS-ORGAN	C1.0 TO C4.0 CR	
1	PREREG 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CONSENT		WEBB
540S	PRIV APP MUS-HARPCB	C1.0 TO C4.0 CR	
1	PREREG 3 QTRS AT PREVIOUS LEVEL CN SAME INSTR CR CONSENT		MORGAN
545	PHIL CF MUS THEORY	C3.0 TO C9.0 CR	
1	01.30-02.20 M W F ALTG 106		MUELLER + WERNER
556	ADV CONDUCTING	C2.0 TO C6.0 CR	
1	TO BE ARRANGED		KCENIGSTEIN
2	TO BE ARRANGED		KINGSBURY
3	TO BE ARRANGED		LEVINSKA
566A	INST ENSEMBLE-SYMPH	C1.0 CR	
1	03.30-05.00 M W	114	KCENIGSTEIN
566C	INST ENSEMBLE-S I S	C1.0 CR	
1	07.15-09.30 PM T	114	LEVINSKA
	03.30-05.00 TH ALTG 114		
566E	SMALL INST ENSEMBLE	C1.0 CR	
1	TO BE ARRANGED		LEVINSKA
567A	VOCAL ENSEMBL-CHCIR	C1.0 CR	
1	02.30-03.20 MTWTF	115	KINGSBURY
567C	VOCAL ENSEMBL-M G C	C1.0 CR	
1	03.30-04.20 MTWTF	115	KINGSBURY
567E	VOCAL ENSEMBL-SMALL	C1.0 CR	
1	TO BE ARRANGED		KINGSBURY
568	OPERA WORKSHOP	C2.0 TO 12.0 CR	
1	TO BE ARRANGED		LAWRENCE
	COURSE WILL MEET IN ARKANSAS JUNE 16-JULY 26		
2	TO BE ARRANGED		W TAYLOR
599	THESIS	C3.0 TO C9.0 CR	
1	TO BE ARRANGED		GORDON

### Philosophy (PHIL)

340	ELEM ETHICS	C4.0 CR	
1	01.30-02.20 MTWTH H EC 208		PCWIE
490	SPECIAL PROBLEMS	C2.0 TO C5.0 CR	
	PREREG CONSENT OF INS IN ALL CASE REQUIRED		
1	TO BE ARRANGED		MCCRE
500	SEM METAPHYSICS	C3.0 CR	
1	02.30-05.00 T H EC 211		FLECHMANN + EARALT
501	SEM-PHILOSOPHY REL	C2.0 TO C4.0 CR	
1	02.30-05.00 M H EC 211		PCWIE
590	GEN GRAD SEMINAR	C3.0 CR	
1	02.30-05.00 TH H EC 206		MCCRE
	TOPIC WHITEHEAD		
2	02.30-05.00 W H EC 211		KELLY
	TOPIC DESCARTES		
3	02.30-05.00 F 211		CLARKE
591	READINGS IN PHIL	C1.0 TO C5.0 CR	
	PREREG CONSENT OF INSTR		
1	02.30-05.00 T H EC 205		MCCRE
599	THESIS	C2.0 TO C9.0 CR	
1	TO BE ARRANGED		MCCRE
600	DISSERTATION	C3.0 TO 48.0 CR	
1	TO BE ARRANGED		MCCRE

### Physical Education for Men (PEM)

100B	M TEACH GOLF	C1.0 CR	
1	08.30-09.20 M W ARENA 555		FOLDER
100C	M TEACH TENNIS	C1.0 CR	
1	08.30-09.20 T TH ARENA 555		LEFEVRE
100F	M TCH EXER-FITNESS	C1.0 CR	
1	07.30-08.20 M W ARENA 555		LCNG
	07.30-08.20 TH ARENA 123		
100H	M TEACH BASKETBALL	C2.0 CR	

1	10.30-11.20	MTW	ARENA	555	IUBELT
	10.30-11.20	TH	ARENA	123	
100J	M TEACH TRACK-FIELD		C2.0	CR	
1	12.30-02.20	T TH	ARENA	555	HARTZOG
100K	M TEACH GYMNASTICS		C2.0	CR	
1	09.30-10.20	MTWTH	ARENA	555	MEADE
101	ORIENT-PRACT P E		C2.0	CR	
1	07.30-08.20	M W	ARENA	123	MARTIN
303	KINESIOLOGY		C5.0	CR	
	PREREQ PHSL 300				
1	09.30-10.20	MTWTHF	ARENA	125	GOOD
341	PRIN CF P E		C3.0	CR	
	PREREQ SENIOR STANDING				
1	07.30-08.20	M W F	ARENA	125	FRANKLIN
350	M-M TEACH PE EL SCH		C3.0	CR	
1	10.30-12.20	MTWTHF	ARENA	123	FRANKLIN
	JUNE 17 - JULY 18				
355	ASSISTING TECH		C2.0	CR	
1	08.30-09.20	F	ARENA	119	WILKINSON
	ADDITIONAL MEETING TBA, PREREQ-JR STANDING				
400	EVALUATION IN P E		C4.0	CR	
1*	08.30-09.20	MTWTHF	ARENA	123	FRANKLIN
404	TEACHING OF SPORTS		C2.0 TC C4.0	CR	
1	01.00-05.00	MTWTHFS	ARENA	125	WILKINSON
	JULY 21 - JULY 27 - BASKETBALL				
2	01.00-05.00	MTWTHFS	ARENA	125	WILKINSON
	JULY 28 - AUG 3 - BASEBALL (REQUIRES CONSENT OF DEPT)				
407	SCI BAS ATH TRAIN		C4.0	CR	
1	12.30-02.20	MTWTHF	ARENA	125	SPACKMAN
	JUNE 17 - JULY 19				
420	EFFECTS MOTOR ACTIV		C4.0	CR	
1*	08.30-09.20	MTWTHF	ARENA	125	KNOWLTON
	UNDERGRAD ONLY, PREREQ - GSA 301				
475A	IND RES-DANCE		C2.0 TC C4.0	CR	
1*	TC BE ARRANGED				
475B	IND RES-KINESIOLOGY		C2.0 TC C4.0	CR	
1	TC BE ARRANGED				
475C	IND RES-MEASUREMENT		C2.0 TC C4.0	CR	
1*	TC BE ARRANGED				
475D	IND RES-MOTOR DEVEL		C2.0 TC C4.0	CR	
1	TC BE ARRANGED				
475E	IND RES-PHSL CF EX		C2.0 TC C4.0	CR	
1*	TC BE ARRANGED				KNOWLTON
475F	IND RES-HIST + PHIL		C2.0 TC C4.0	CR	
1	TC BE ARRANGED				
500	TECH RESEARCH		C4.0	CR	
1*	07.30-08.20	MTWTHF	GYM	204	THORPE
503	SEMINAR IN P E		C4.0	CR	
1*	09.30-10.20	MTWTHF	ARENA	123	SHEA
504	PROB IN P E		C4.0	CR	
	PREREQ 500				
1*	TC BE ARRANGED				
508	ADMIN INTER ATHLETIC		C3.0	CR	
1	02.30-04.00	MTWTHF	ARENA	125	STOTLAR
	JUNE 17 - JULY 19				
511	ANAL HUM PHYS MOVE		C2.0	CR	
1*	10.30-11.20	M W F	ARENA	125	GOOD
525	READING IN P E		C1.0 TC C6.0	CR	
1*	TC BE ARRANGED				SHEA
599	THESIS		C1.0 TC C9.0	CR	
1*	TC BE ARRANGED				
600	DISSERTATION		C2.0 TC 12.0	CR	
1*	TC BE ARRANGED				

### Physical Education for Women (PEW)

304E	TECH-TEACH SPORTS		C2.0	CR	
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1	09.30-11.20	M W	GYM	207	CCTEN
	PREREC - PE 228 OR EQUIVALENT				
319	TECH ELEM SCH ACT			C4.C	CR
	PREREC PSYC 301 CR CLID 305				
1	08.30-09.20	ThTh	GYM	208	STEHR
	12.30-01.20	M	LAWSON	161	ZIMMERMAN
2	09.30-10.20	ThTh	GYM	208	ZIMMERMAN
	12.30-01.20	M	LAWSON	161	ZIMMERMAN
3	11.30-01.20	W	GYM	208	ZIMMERMAN
	11.30-12.20		F	GYM	208
	12.30-01.20	M	LAWSON	161	ZIMMERMAN
4	12.30-01.20	M	GYM	161	ZIMMERMAN
	11.30-01.20	T	GYM	207	PUHL
	11.30-12.20	Th	GYM	207	PUHL
353	ORGAN + ADMIN CF PE			C4.C	CR
	PREREC PEW 354				
1	08.30-09.20	MTWTh	GYM	204	CAVIES
355	TECH CF TEACH SWIM			C3.C	CR
	PREREC PEW 211 CR EQLIV				
1	07.30-08.20	M W F	PULL P	11	CCCPER
400	EVALUATION IN PE			C4.C	CR
1*	08.30-09.20	MTWThF	ARENA	123	FRANKLIN
407	SCI BAS ATH TRAIN			C4.C	CR
1	12.30-01.20	MTWThF	ARENA	125	SPACKMAN
	JUNE 17 - JULY 19, PREREC - PHSL 300				
444	CONTEMP DANCE WKSTP		C2.C	TC C8.C	CR
1	01.00-05.00	MTWThF	0813	101	GRAY
	JUNE 17 - JULY 26				
475A	IND RES-DANCE		C2.C	TC C4.C	CR
1	TC BE ARRANGED				
475B	IND RES-KINESIOLOGY		C2.C	TC C4.C	CR
1	TC BE ARRANGED				
475C	IND RES-MOTOR DEVEL		C2.C	TC C4.C	CR
1	TC BE ARRANGED				
475E	IND RES-PHSL CF EX		C2.C	TC C4.C	CR
1	TC BE ARRANGED				
475F	IND RES-HIST + PHIL		C2.C	TC C4.C	CR
1	TC BE ARRANGED				
500	TECH CF RESEARCH			C4.C	CR
	PREREC PEW 400 CR CONCURRENT ENR IN PEW 400				
1*	07.30-08.20	MTWThF	GYM	204	THORPE
503	SEMINAR IN P E			C4.C	CR
1*	09.30-10.20	MTWThF	ARENA	123	SHEA
504	PROBLEMS IN PE			C4.C	CR
	PREREC PEW 500 OR EQLIV				
1*	TC BE ARRANGED				
508	ADMIN INTER ATHLETIC			C3.C	CR
1	02.30-04.00	MTWThF	ARENA	125	STATLAR
	JUNE 17 - JULY 19				
511	ANAL FLW PHYS MCVE			C2.C	CR
1*	10.30-11.20	M W F	ARENA	125	GCCD
	PREREC - P.E. 303				
525	READINGS		C1.C	TC C6.0	CR
	PREREC CCNSENT OF INSTR AND DEPT CHAIRMAN				
1	TC BE ARRANGED				
599	THESIS		C1.C	TC C9.0	CR
1	TC BE ARRANGED				
600	DISSERTATION		C2.C	TC 48.C	CR
1	TC BE ARRANGED				

### Physics (PHYS)

206A	COLLEGE PHYSICS			03.C	CR
	PREREC MATH 111B				
1	09.30-10.20	M W F	PARK	308	
	09.30-10.20	T	PARK	308	

2	09.30-10.20	M W F	P	308
	09.30-10.20	TH	PARK	308
206B	COLLEGE PHYSICS		C3.0 CR	
	PREREQ	PHYS 206A CR 206C		
1	10.30-11.20	M W F	PARK	308
	10.30-11.20	TH	PARK	308
207A	COLLEGE PHYS LAB		C1.0 CR	
	PREREQ	CONCURRENT ENR IN PHYS 206		
1	09.30-12.20	T	PHY SC	405
2	09.30-12.20	TH	PHY SC	405
207B	COLLEGE PHYS LAB		C1.0 CR	
	PREREQ	CONCURRENT ENR IN PHYS 206		
1	09.30-12.20	TH	PHY SC	407
211A	UNIVERSITY PHYSICS		C5.0 CR	
	PREREQ	MATH 150B CR EQUIV CR CONCURRENT ENR IN MATH 150B		
1	07.30-08.20	M W F	PARK	308
	07.30-08.20	T TH	PARK	308
	02.30-04.20	T	PHY SC	405
2	07.30-08.20	M W F	PARK	308
	07.30-08.20	T TH	PARK	309
	02.30-04.20	TH	PHY SC	405
211C	UNIVERSITY PHYSICS		C5.0 CR	
	PREREQ	PHYS 211A CR 211B		
1	08.30-09.20	M W F	PARK	308
	08.30-09.20	T TH	PARK	308
	01.30-03.20	T	PHY SC	407
300	UNIVERSITY PHYS IV		C5.0 CR	
	PREREQ	PHYS 111 206 CR PHYS 211		
1	10.30-11.20	MTH F	WHAM	319
	11.30-12.20	T	WHAM	328
	01.30-03.20	TH	PHY SC	404
2	10.30-11.20	MTH F	WHAM	319
	11.30-12.20	T	WHAM	328
	01.30-03.20	F	PHY SC	404
301	MECHANICS		C3.0 CR	
	PREREQ	MATH 305A CR CCNS INSTR + PHYS 111A CR 206A CR 211A		
1	08.30-09.20	M W F	TECH B	20
305A	INTRC ELEC THEORY		C3.0 CR	
	PREREQ	MATH 305A CR CCNS INSTR + PHYS 111 CR 206 CR 211		
1	11.30-12.20	M W F	PHY SC	410
309	ELECTRIC CIRCUITS		C3.0 CR	
	PREREQ	PHYS 111C CR 206C CR 211C		
1	09.30-10.20	M W F	PHY SC	410
310	LIGHT		C3.0 CR	
	PREREQ	PHYS 111B CR 206B CR 211B		
1	10.30-11.20	M W F	PHY SC	410
311	OPTICS LAB		C1.0 CR	
	PREREQ	PHYS 310 CR CONCURRENT ENR IN PHYS 310		
1	09.30-12.20	T	PHY SC	406
2	09.30-12.20	TH	PHY SC	406
312	ELEC CIRC LAB		C2.0 CR	
	PREREQ	PHYS 309		
1	08.30-11.20	W F	PHY SC	406
2	01.30-03.20	T TH	PHY SC	406
404A	PHYSICAL ELECTRONIC		C3.0 CR	
	PREREQ	PHYS 304, 305, AND 401 CR CONSENT OF INSTR		
1	09.30-10.20	M W F	AG	216
405	ELECTRONICS		C3.0 CR	
	PREREQ	PHYS 305 AND 309 CR CONSENT OF INSTR		
1	10.30-11.20	M W F	AG	216
420	SPECIAL PROJECTS I		C2.0 TO C5.0 CR	
	PREREQ	PHYS 301 AND 305		
1	TO BE ARRANGED			
510C	CLASSICAL MECHANICS		C3.0 CR	
	PREREQ	PHYS 510B		
1*	08.30-09.20	M W F	PHY SC	410

520	SPECIAL PROJECTS	02.0 TC 05.0 CR
	PREREQ CONSENT OF INSTR	
1	TC BE ARRANGED	
580	SEL TOPICS PHYS	03.0 TC 06.0 CR
1	TC BE ARRANGED	
590	THESIS	01.0 TO 09.0 CR
1	TC BE ARRANGED	

### Physiology (PHSL)

300	HUMAN ANATOMY	04.0 TO 05.0 CR	
1	08.30-09.20	MTWTF	LAWSON 201
	09.30-11.20	TH	LS I 18
2	08.30-09.20	MTWTF	LAWSON 201
	07.30-09.20	F	LS I 18
300N	HUMAN ANATOMY	04.0 CR	
	PREREQ NURSING STUDENTS ONLY		
1	08.30-09.20	MTWTF	LAWSON 201
	09.30-11.20	T	LS I 18
414	PHYSICAL OF SPEECH	04.0 CR	
1*	07.30-08.20	M W F	LS I 113
	07.30-08.20	T TH	LS I 117
599	THESIS	03.0 TO 09.0 CR	
1*	01.30-03.30	MTWTF	LS I 111
600	DISSERTATION	04.0 TC 06.0 CR	
1*	01.30-03.30	MTWTF	LS I 111

### Plant Industries (PL I)

103	INTRO STUDY SOILS	04.0 CR	
	PREREQ H S CHEM CR CONCURRENT COLLEGE		CHEM
1	08.30-09.20	MTWTF	AG 214
264	GEN HORTICULTURE	04.0 CR	
1	10.30-11.20	MTW	AG 225
	08.30-10.20	TH	AG 181
390	SPEC STUD PLANTS	01.0 TO 06.0 CR	
	PREREQ CONSENT OF DEPT CHAIRMAN		
1	TC BE ARRANGED		
407A	SOIL FERTILITY	03.0 CR	
	PREREQ ONE COURSE IN SOILS		
1	09.30-11.20	MTW	AG 214
	09.30-12.20	TH	AG 214
	JUNE 23 - JULY 18		
520	READINGS	01.0 TO 03.0 CR	
	PREREQ CONSENT OF DEPT		
1	TC BE ARRANGED		
575	RESEARCH	01.0 TO 06.0 CR	
	PREREQ CONSENT OF DEPT		
1	TC BE ARRANGED		
590	SPEC STUDIES-PL I	01.0 TO 04.0 CR	
1	03.00-04.30	MTW	AG 168
599	THESIS	01.0 TO 09.0 CR	
1	TC BE ARRANGED		

### Printing and Photography (P & P)

260A	FUND-STILL PHOTO	04.0 CR	
1	09.30-11.20	M W	0834 113
	12.30-02.20	W	AG 142
2	09.30-11.20	M W	0834 113
	12.30-02.20	F	AG 142
341A	CINEMATOGRAPHY	04.0 CR	
1*	08.30-09.20	M WTF	0834 113
	12.30-02.20	M W	0834 113
2*	08.30-09.20	M WTF	0834 113
	12.30-02.20	T TH	0834 113

3*	08.30-09.20	M WTH	0834	113	MERCER
	12.30-04.20	F	0834	113	MERCER
411	WKSHCP STILL PHCTC		C5.0	CR	
	PREREC	CONSENT OF DEPT			
1*	02.30-04.20	MTWTH	0834	113	EILERS
412	WKSHCP CINEMA PROD	C1.0	TC	C6.0	CR
	PREREC	CONSENT OF DEPT			
1	TC BE ARRANGED				PAINE
431	PRCB STILL PHCTC CI	C1.0	TC	12.0	CR
	PREREC	BY PERMISSION			
1	TC BE ARRANGED				

## Psychology (PSYC)

211A	PRIN-METH OF PSYC		C4.0	CR	
	PREREC	GSB 201C			
1	09.30-10.20	TH F	H EC	102	MELTZER
	08.30-10.20	TH	PHY SC	116	
211B	PRIN-METH OF PSYC		C4.0	CR	
	PREREC	211A			
1	10.30-11.20	MTW	WHLR	107	RACTKE
	09.30-11.20	F	AG	168	
301	CHILD PSYCH		C4.0	CR	
	PREREC	GSB 201C			
1	08.30-10.20	M W	LAWSON	202	CDCNELL
2	08.30-10.20	T TH	AG	224	CDCNELL
305	PSYCH PERSONALITY		C4.0	CR	
	PREREC	GSB 201C			
1	08.30-09.20	MT THF	LAWSON	221	RAYNARD
307	SOCIAL PSYCHOLOGY		C4.0	CR	
	PREREC	GSB 201C			
1	10.30-11.20	M	WHAM	308	MITCHELL
	10.30-11.20	TWTH	LAWSON	131	
311	EXP PSYCH LEARN		C4.0	CR	
	PREREC	PSYC 211B			
1	09.30-10.20	MTW	H EC	122	EVANSON
	08.30-10.20	TH	WHAM	321	
320	INDUSTRIAL PSYCH		C4.0	CR	
	PREREC	GSB 201C			
1	09.30-10.20	MT THF	TECH A	111	FILL
431	PSYCCPATHOLOGY		C4.0	CR	
	PREREC	305 CR CONSENT OF INSTR			
1	09.30-11.20	T TH	H EC	14CB	SNYDER
440	TH OF PERSONALITY		C4.0	CR	
	PREREC	PSYC 305 CR CONSENT OF INSTR			
1	08.30-09.20	MTWTH	PARK	204	FARREN
459	PRESCHOOL WORKSHOP		C4.0	CR	
	PREREC	CONSENT OF INSTR			
1	08.15-09.15	MTWTHF	H EC	122	DUNAGAN
	09.30-11.45	MTWTHF	0481	202	
	JUNE 17 - JULY 12				
465	GRP DYN-IND BEHAV		C4.0	CR	
	PREREC	307 CR CONSENT OF INSTR			
1	07.30-09.20	T F	H EC	102	MITCHELL
490	INDEPEN PROJECTS	C1.0	TC	16.0	CR
	PREREC	CONSENT OF INSTR AND DEPT CHAIRMAN			
1	TC BE ARRANGED				
516	LEARNING PROCESSES		C4.0	CR	
	PREREC	CONSENT OF INSTR			
1	07.30-09.20	M TH	H EC	202	MELTZER
531	ADV PSYCHOPATHOLOGY		C4.0	CR	
	PREREC	PSYC 530, 541 AND CONSENT OF INSTR			
1*	TC BE ARRANGED				RINGUETTE
579	ANIMAL BEHAVIOR		C4.0	CR	
	PREREC	CONSENT OF INSTR			
1	02.30-03.20	T TH	WHAM	305	WARING
	12.30-04.20	W	AG	132	



CROSSLISTED WITH ZOCL 579

590 READINGS-PSYC 01.0 TC 16.0 CR  
PREREQ CONSENT OF DEPT  
1 TC BE ARRANGED

591 RESEARCH IN PSYC 01.0 TC 36.0 CR  
PREREQ CONSENT OF DEPT  
1 TC BE ARRANGED

593E PRACT-CLIN PSYC 01.0 TC 18.0 CR  
PREREQ CONSENT OF INSTR IN CHARGE  
1 TC BE ARRANGED CDCNNELL, RADER  
SHEEMAKER

593F PRACT-CLINS PSYC 01.0 TC 18.0 CR  
PREREQ CONSENT OF INSTR IN CHARGE  
1 TC BE ARRANGED FARREN

593H PRACT-INDUST PSYC 01.0 TC 18.0 CR  
PREREQ CONSENT OF INSTR IN CHARGE  
1 TC BE ARRANGED WESTBERG

593L PRACT-TEACHING PSYC 01.0 TC 18.0 CR  
PREREQ CONSENT OF INSTR IN CHARGE  
1 TC BE ARRANGED CARRIER

595 ADVANCED SEMINAR 01.0 TC 18.0 CR  
PREREQ CONSENT OF DEPT  
1 TC BE ARRANGED LIT  
2 TC BE ARRANGED SCHILL  
3 TC BE ARRANGED RADTKE  
4 TC BE ARRANGED LEVITT  
5 TC BE ARRANGED FNATICW  
6\* 01.30-04.20 F CL 301B MCHOSE

599 THESIS 01.0 TC 09.0 CR  
1 TC BE ARRANGED

600 DISSERTATION 01.0 TC 36.0 CR  
1 TC BE ARRANGED

#### Radio-Television (R - T)

161 RADIC-TV SPEAKING 04.0 CR  
1 08.30-09.20 MTWTF COMM 144 RICHTER

251 SURVEY OF BROADCAST 03.0 CR  
1 11.30-12.20 M W F COMM 144

252 PRODUCTION ANALYSIS 03.0 CR  
1 09.30-10.20 M W F COMM 144 DYBIVIG

260 AUDIO CONTROL PRACT 01.0 CR  
1 09.30-11.20 TH COMM 110 FALL

351 PROGS AND AUDIENCES 05.0 CR  
1 12.30-01.20 MTWTF COMM 144 DYBIVIG

352 LAWS AND POLICIES 04.0 CR  
PREREQ R-T 251  
1 01.30-02.20 M W T F F COMM 144

363 RADIC PRODUCTION 04.0 CR  
PREREQ R-T 260  
1 09.30-11.20 T COMM 110 RICHTER  
06.30-10.00 PM TH COMM 110

364 TV PRODUCTION 04.0 CR  
PREREQ R-T 252  
1 02.30-03.20 M T F F COMM 108 PICTER  
02.30-04.20 W COMM 108

373 ADV RADIO PROD LAB 01.0 TC 02.0 CR  
PREREQ R-T 363 OR CONCURRENT ENR IN R-T 363  
1 03.30-04.20 T TH COMM 144 LYNCH

374 ADV TV PROD LAB 01.0 TC 02.0 CR  
PREREQ MINIMUM OF 6 HRS OF R-T 373  
1 03.30-04.20 M COMM 144 LAFFERTY

375J IND RESEARCH PROBS 01.0 TC 02.0 CR  
PREREQ CONSENT OF INSTR  
1 11.30-12.20 T COMM 144 RIMERYAN

383 BROADCAST WRITING 04.0 CR  
PREREQ R-T 363 AND 364

1	07.30-08.20	M	CCMM	110	LYNCH
	07.30-08.20		F	CCMM	110
393	RADIO-TV + SOCIETY			C3.0	CR
	PREREQ R-T 251				
1	10.30-11.20	M W F	CCMM	144	RIMMAN
464	PUB AFFAIRS-TV PRG			C3.0	CR
	PREREQ CONSENT OF INSTRUCTOR				
1	01.30-04.20	T	CCMM	144	RIMMAN
475	PRODUCTION PROBLEMS		C1.0 TC C4.0	CR	
1	11.30-12.20	TH	CCMM	114	ROBBINS

### Recreation and Outdoor Education (REC)

201	LEISURE AND REC			C3.0	CR
1	07.30-08.20	M W F	MAIN	201	CBRIEN
301	CUTDCCR EDUCATION			C4.0	CR
1	09.00-05.00	MTWTF	C625	101	FCRA
	JUNE 16 - 27				
310A	SOC REC-TECHNIQUES			C2.0	CR
1	10.30-11.20	M W	WFLR	203	LUCKENBACH
310B	SOC REC-DRAMATICS			C2.0	CR
1	09.30-10.20	M W		101	TAYLOR
310C	SOC REC-LEIS CRAFTS			C2.0	CR
1	10.30-11.20	T TH	C628	201	TAYLOR
310D	SOC REC-MUS + DANCE			C2.0	CR
1	11.30-12.20	T TH		201	
330	CAMPCRAFT			C3.0	CR
1	03.00-06.00	W	C628	201	ABERNATHY
340	REC ACT FOR SP PGF			C3.0	CR
	PREREQ REC 302				
1	12.30-01.20	M	WHAM	305	
360	PLAYGND ADMIN			C4.0	CR
1	TC BE ARRANGED		C628	101	RIDINGER
425	REC AREAS AND FAC			C3.0	CR
1	10.30-11.20	M W F	C628	101	ABERNATHY
450	PRACTICUM		C4.0 TC 16.0	CR	
1	TC BE ARRANGED				ABERNATHY
500	PRIN CF REC			C4.0	CR
1*	09.30-10.20	MTWTF	MAIN	201	
510	CUTDCCR ED WKSHIP			C4.0	CR
1	09.00-05.00	MTWTF	C625	101	FREEBERG
	JUNE 16 - 27				
520	REC ADMIN WKSHCP			C4.0	CR
1	10.30-11.20	MTWTF	MAIN	101	RIDINGER
525	SPEC FCP WKSHCP			C4.0	CR
1	TC BE ARRANGED				FREEBERG
540	SURV + PLAN CF FAC			C4.0	CR
1*	11.30-12.20	MTWTF	WHAM	25	TAYLOR
570	SEM-REC + OUT ED			C4.0	CR
1*	TC BE ARRANGED				FREEBERG
596	INDEPENDENT STUDY		C2.0 TC C4.0	CR	
1	TC BE ARRANGED				

### Rehabilitation Institute (REHB)

414	DEV EMP CPPOPT		C1.0 TC 16.0	CR	
	PREREQ SPECIAL STANDING CR CONSENT OF INSTR				VIECELI + CICKY
1	TC BE ARRANGED				
480	INTRC TC REHB			C2.0	CR
1	05.45-07.25	W	WHAM	112	VIECELI
481	INTRC TC SERVICES			C2.0	CR
1	09.30-11.20	S	WHAM	137	LEE
490	READINGS IN REHB		C1.0 TC C6.0	CR	
	PREREQ CONSENT OF INSTR				
1	TC BE ARRANGED				
511	VOCATIONAL CHOICE			C2.0	CR
	PREREQ CONSENT OF INSTR				

1	06.30-08.20 PM	TH	WHAM	112	LEE
519	SEL, FLACE + FCLLCW			C2.0 CR	
1	09.30-11.20	F	CL	25	VIECELI
537	DIAG PRCC-SPEC POP			C4.0 CR	
1	12.30-02.20	M F	PHY SC	218	COYLE
541	MED ASPECT-REHB			C4.0 CR	
1	02.30-04.20	W F	COMM	118	MIRANTI
551	GEN REHB COUNSELING			C4.0 CR	
1	08.30-10.20	M W	AG	222	GARDNER
552	REHB CCUNSELING RES			C4.0 CR	
1	08.30-10.20	M W	PULL	43A	GRENFELL
561	PSYC-SCC ASPECT-DIS			C2.0 CR	
1	06.30-08.20 PM	T	WHAM	201	SCHUMACHER
567	SCH-RELATED BEHAV			C4.0 CR	
1	TO BE ARRANGED				HOPKINS
571	SEM IN SEL TOPICS			C1.0 TC C2.0 CR	
1	TO BE ARRANGED				
576	SEM IN BEHAV MODIFI			C2.0 CR	
1*	09.30-11.20	T TH	H EC	122A	SULZER
578	SEM IN CORR REF CC			C1.0 TC C6.0 CR	
1	09.30-11.20	F	WHAM	303	TWCMEY
585A	PRACTICUM IN REHAB			C8.0 CR	
1	TO BE ARRANGED				LEE
585B	PRACTICUM IN REHAB			C8.0 CR	
1	TO BE ARRANGED				HOPKINS
585C	PRACTICUM IN REHAB			C8.0 CR	
1	TO BE ARRANGED				SCHUMACHER
589	INTERNSHIP IN REHAB			12.0 CR	
1	TO BE ARRANGED				
590	INDEPENDENT PROJ			C1.0 TC 16.0 CR	
1	TO BE ARRANGED				
591	RESEARCH IN REHAB			C1.0 TC 16.0 CR	
1	TO BE ARRANGED				
599	THESIS			C1.0 TC C9.0 CR	
1	TO BE ARRANGED				

### Secondary Education (S ED)

310	HIST PRIN OF SEC ED			C4.0 CR	
1	07.30-08.20	MT THF	WHAM	326	
2	08.30-09.20	MT THF	WHAM	326	
3	09.30-10.20	MT THF	WHAM	326	
4	10.30-11.20	MT THF	WHAM	326	
5	01.30-02.20	MT THF	WHAM	326	
315	HIGH SCHOOL METHODS			C3.0 CR	
1	08.30-09.20	M W F	WHAM	303	
352	SEC STUD TCH			C8.0 TC 16.0 CR	
1	TO BE ARRANGED				
	(AGRICULTURE)				
2	TO BE ARRANGED				
	(ART)				

3	TC BE ARRANGED					
	(BIOLOGY)					
4	TC BE ARRANGED					
	(BUSINESS)					
5	TC BE ARRANGED					
	(CHEMISTRY)					
6	TC BE ARRANGED					
	(ECONOMICS)					
7	TC BE ARRANGED					
	(ENGLISH)					
8	TC BE ARRANGED					
	(FOREIGN LANGUAGE)					
9	TC BE ARRANGED					
	(GENERAL SCIENCE)					
10	TC BE ARRANGED					
	(GEOGRAPHY)					
11	TC BE ARRANGED					
	(GOVERNMENT)					
12	TC BE ARRANGED					
	(HEALTH EDUCATION)					
13	TC BE ARRANGED					
	(HISTORY)					
14	TC BE ARRANGED					
	(HOME ECONOMICS)					
15	TC BE ARRANGED					
	(INDUSTRIAL EDUCATION)					
16	TC BE ARRANGED					
	(JOURNALISM)					
17	TC BE ARRANGED					
	(MATHEMATICS)					
18	TC BE ARRANGED					
	(MUSIC)					
19	TC BE ARRANGED					
	(PHYSICAL EDUCATION)					
20	TC BE ARRANGED					
	(PHYSICS)					
21	TC BE ARRANGED					
	(SOCIOLOGY)					
22	TC BE ARRANGED					
	(SOCIAL STUDIES)					
23	TC BE ARRANGED					
	(SPEECH)					
24	TC BE ARRANGED					
	(LIBRARY SCIENCE)					
375	READINGS IN SCIENCE	C2.C TC C3.C CR				
	PREREQ CONSENT OF DEPT CHAIRMAN					
1	TC BE ARRANGED					
402	AERO-SPACE ED WRKSP	C4.0 CR				
	PREREQ CONSENT OF INSTR					
1	08.30-12.30 MTWTF	COMM	112		FISHBACK	
	01.30-04.30 MTWTF	COMM	112			
	JUNE 16-27					
407A	THE JUNIOR HIGH SCH	C4.0 CR				
1*	09.30-10.20 MTWTF	WHAM	329			
487	TCH NAT SCI-SEC SCH	C4.0 CR				
1	07.30-09.20 MTWTF	PULL	304		FINGERFORD	
	JUNE 17 - JULY 11					
2	12.30-02.20 MTWTF	PULL	304		FINGERFORD	
	JUNE 15-JULY 11					
488	SOC ST IN SEC SCH	C3.0 CR				
	PREREQ GUID 305					
1*	08.30-09.20 MTWTF	WHAM	317			
490	ECONOMIC EDUCATION	C4.0 CR				
1	08.30-11.20 MTWTF	WHAM	201			
	01.30-03.20 MTWTF	WHAM	201			
	AUGUST 11 - 22					



506	READING IN SEC SCH			C4.0 CR	
	PREREG	S ED 352	CR TEACHING EXPERIENCE		
1*	10.30-11.20	MTWTF	WHAM	212	CUSENBERRY
507	READINGS IN READING			C2.0 TO C4.0 CR	
	PREREG	CCONSENT OF INSTR			
1	TC BE ARRANGED				
508	SEM TREND-SEL AREAS			C4.0 CR	
	PREREG	COMPLETION OF HALF CR MORE OF MASTERS WORK + CCONSEN			
1*	10.30-11.20	MTWTF	WHAM	305	MEES
509	PRACTICUM IN RD			C4.0 TO C8.0 CR	
	PREREG	S ED 521C			
1	TC BE ARRANGED				
516	INTERN IN READING			C8.0 TO 12.0 CR	
	PREREG	S ED 509 AND 514			
1	TC BE ARRANGED				
518	SUP CF ST TEACH			C2.0 CR	
1	07.30-08.20	MTWTF	WHAM	208	CASEY
	JUNE 15-JULY 11				
2	07.30-08.20	MTWTF	WHAM	208	
521A	DIAG-CORR READ DIS			C4.0 CR	
1*	11.30-12.20	MTWTF	WHAM	137	FISH-CC
	REQUIREMENT S ED 506 + CCONSENT OF INSTR				
521B	DIAG-CORR READ DIS			C4.0 CR	
1*	12.30-01.20	MTWTF	WHAM	137	FISH-CC
521C	DIAG-CORR READ DIS			C4.0 CR	
1*	01.30-02.20	MTWTF	WHAM	137	FISH-CC
562	HIGH SCH CURRICULUM			C4.0 CR	
	PREREG	1 GRAD COURSE IN CURRICULUM			
1*	08.30-09.20	MTWTF	WHAM	328	
2*	11.30-12.20	MTWTF	WHAM	312	
564	F S PRINCIPALSHIP			C4.0 CR	
	PREREG	CCONSENT OF INSTR			
1*	12.30-01.20	MTWTF	WHAM	303	MEES
571	DCC SEM-CURR + INST			C4.0 CR	
	PREREG	DOCTORAL STUDENTS ONLY			
1*	01.30-04.00	T TH	WHAM	301B	
575A	IND RES-CURRICULUM			C2.0 TO C4.0 CR	
1*	TC BE ARRANGED				
575B	IND RES-SUPERVISION			C2.0 TO C4.0 CR	
1*	TC BE ARRANGED				
575C	IND RES-LANG ARTS			C2.0 TO C4.0 CR	
1*	TC BE ARRANGED				
575D	IND RES-SCIENCE			C2.0 TO C4.0 CR	
1*	TC BE ARRANGED				
2	08.00-12.00	MTWTF	PULL	304	FUNGERFORD, KNAPP,
	01.00-04.00	MTWTF	PULL	304	AND SAMFORD
	AUG 11 - 22				
575E	IND RES-READING			C2.0 TO C4.0 CR	
1*	TC BE ARRANGED				
575F	IND RES-SEC STUDIES			C2.0 TO C4.0 CR	
1*	TC BE ARRANGED				
2	08.00-12.00	MTWTF	PULL	304	FUNGERFORD, KNAPP,
	01.00-04.00	MTWTF	PULL	304	AND SAMFORD
	AUG 11 - 22				
575G	IND RES-SEC EDUC			C2.0 TO C4.0 CR	
1*	TC BE ARRANGED				
575K	IND RES-JR H METHCD			C2.0 TO C4.0 CR	
1*	TC BE ARRANGED				
596	INDEPENDENT INVEST			C5.0 TO C9.0 CR	
1*	TC BE ARRANGED				
599	THESIS			C3.0 TO C9.0 CR	
1*	TC BE ARRANGED				
600	DISSERTATION			C1.0 TO 48.0 CR	
1*	TC BE ARRANGED				

# **Secretarial and Business Education (SEC)**

201A	TYPEWRITING			C3.0 CR	
1	08.30-09.20	MT TFF	CL	13	EURGER
201B	TYPEWRITING			C3.0 CR	
	PREREC SEC 201A	CR EQUIV			
1	08.30-09.20	MT TFF	CL	13	EURGER
201C	TYPEWRITING			C3.0 CR	
	PREREC SEC 201B	CR EQUIV			
1	02.30-03.20	TWTF	CL	13	EURGER
221B	SHORTHAND-TRANS			C4.0 CR	
	PREREC SEC 221A	CR EQUIV			
1	01.30-02.20	MTWTF	CL	17	EURGER
221C	SHORTHAND-TRANS			C4.0 CR	
	PREREC SEC 221B	CR EQUIV			
1	01.30-02.20	MTWTF	CL	17	EURGER
241	DUPLICATING			01.0 CR	
	PREREC SEC 201A	CR EQUIV			
1	07.30-09.20		CL	10	RAHE
304	ADV TYPEWRITING			C3.0 CR	
	PREREC SEC 201C	CR EQUIV			
1	02.30-03.20	TWTF	CL	13	EURGER
324A	ADV SPORHAND-TRANS			C4.0 CR	
	PREREC SEC 221C	CR EQUIV			
1	09.30-10.20	MTWTF	CL	13	RAHE
324B	ADV SPORHAND-TRANS			C4.0 CR	
	PREREC SEC 324A	CR EQUIV			
1	09.30-10.20	MTWTF	CL	13	RAHE
341	OFFICE CALC MCHNS			C4.0 CR	
1	08.30-09.20	MTWTF	CL	17	RAHE
403	TEACH TYPEWRITING			C3.0 CR	
	PREREC SEC 304	CR EQUIV			
1	11.30-01.20	MTWTF	CL	13	EUBOLTZ
	JUNE 18 - JULY 11				
404	TEACHING SHORTHAND			C3.0 CR	
	PREREC SEC 324A	CR EQUIV			
1	11.30-01.20	MTWTF	CL	13	JACOBSON
	JULY 14 - AUGUST 8				
414B	ORG ADM VOC BUS ED			C3.0 CR	
1	02.30-04.20	MTWTF	LAWSON	231	BAUERNFEIND
	JUNE 18 - JULY 3				
415	SUP BUS EXP + STUDY			C6.0 CR	
1	02.30-05.20	MTWTF	LAWSON	231	BAUERNFEIND
	JULY 7 - 11				
	MEETS 1.30-5.20	AUG 18-20	IN L 231,	REST IS WORK EXP.	
417	DATA FRCC IN BUS ED			C4.0 CR	
1*	08.30-10.20	MTWTF	H4	133	ROBB
	COURSE MEETS AT VTI				
485	PRIN-PHIL VO TEC ED			03.0 CR	
	PREREC STUDENT TEACHING	CR CCNSENT OF	DEPARTMENT		
1	08.30-10.20	MTWTF	TECH D 130	BAUERNFEIND	
	JUNE 23 - JULY 11				
503	TEST-MEAS BUS EDUC			C4.0 CR	
	PREREC GUID 422A	CR MATH 41CA			
1	11.30-01.20	MTWTF	CL	10	JACOBSON
	JUNE 18 - JULY 11				
505	WRKSHF IN BUS ED			01.0 TO 06.0 CR	
1	08.30-08.30	M	PULL	42	BAUERNFEIND
	08.30-05.00	T	PULL	42	
	AUG 11-12 WKSHF IN VOCATIONAL CC+DE			1.0 CR	
2	11.30-01.20	MTWTF	CL	10	EUBOLTZ
	JULY 14-AUG 8 WKSHF INCCNSUMER ED			4.0 CR	
525	INTER VOC COOP ED			C3.0 CR	
	PREREC STUDENT TEACHING				
1	10.30-12.20	MTWTF	TECH D 130	BAUERNFEIND	
	JUNE 23 - JULY 11				
590	READINGS IN BUS ED			02.0 TO 05.0 CR	
	PREREC CCNSENT OF INSTR				

## Sociology (SOC)

301	PRINCIPLES OF SOC	C4.0 CR		
	PREREQ JR STANDING			
1	11.30-12.20 MT TFF	LAWSON	221	MARTIN
	SECT 1 FOR SOCIOLOGY MAJORS ONLY			
2	12.30-01.20 TWTFF	WHAM	112	TAYLOR
312	ELEM SOC RESEARCH	C4.0 CR		
	PREREQ GSD 108C CR MATH 22C			
1	09.30-10.20 TWTFF	WHAM	302	ERICKS
332	SOCIAL ORGANIZATION	C4.0 CR		
	PREREQ SOC 301			
1	08.30-10.10 M W	MAIN	206	NALL
372	CRIMINOLOGY	C4.0 CR		
	PREREQ GSB 201E CR SOC 301			
1	10.30-11.20 MTWTF	WHAM	112	VANDIVER
374	SOCIOLOGY OF ED	C4.0 CR		
	PREREQ GSB 201E CR SOC 301			
1	01.30-02.20 MT TFF	PHY SC	118	MARTIN
383	INTRCD INTERVIEWING	C4.0 CR		
	PREREQ GSB 201E CR SOC 301			
1	01.30-02.20 MTWTF	LAWSON	161	BRELJE
396	READINGS IN SOC	C1.0 TC C5.0 CR		
	PREREQ CCNSENT OF INSTR			
1	TC BE ARRANGED			
426	SOC BEHAVIOR PERS	C4.0 CR		
	PREREQ GSB 321 CR PSYC 305 CR CCNSENT OF INSTR			
1	11.30-12.20 MTWTF	WHAM	112	RCSSELL
435	SOC STRATIFICATION	C4.0 CR		
	PREREQ GSB 201E CR SOC 301			
1	12.30-03.10 TH	PHY SC	218	NALL
473	JUVENILE DELIN	C4.0 CR		
	PREREQ SOC 302 CR CCNSENT OF INSTR			
1	06.30-10.00 PM T	CL	109	EYNON
482	SOC WK-SEL AGENCIES	C3.0 CR		
	PREREQ SCC 481			
1	02.30-03.20 MT TH	CL	25	BRELJE
486	INDEP STUDY CCM DEV	C1.0 TC C5.0 CR		
	PREREQ CCNSENT OF INSTR			
1	TC BE ARRANGED			THOMAS
489E	INDEPT STUDY CCRS	C2.0 TO C4.0 CR		
	PREREQ CCNSENT OF INSTR			
1	TC BE ARRANGED			EYNON
522	THE SOC-SMALL GROUP	C4.0 CR		
	PREREQ SOC 426 CR CCNSENT OF INSTR			
1	08.30-10.10 M	AG	218	RCSSELL
	08.30-10.10 TH	CL	326	
583	SUPER FIELD WK CORR	C4.0 TC 12.0 CR		
	PREREQ CCNSENT OF INSTR			
1	TC BE ARRANGED			
587	RESEARCH IN CD	C2.0 TC 08.0 CR		
	PREREQ MAJOR IN COMMUNITY DEVEL			
1	TC BE ARRANGED			THOMAS
591	INDIVIDUAL RESEARCH	C2.0 TO C6.0 CR		
	PREREQ CCNSENT OF INSTR AND DEPT CHAIRMAN			
1	TC BE ARRANGED			
596	READINGS IN SOC	C2.0 TO 12.0 CR		
	PREREQ CCNSENT OF INSTR AND DEPT CHAIRMAN			
1	12.30-03.20 W	AG	301A	
599	THESIS	C2.0 TO C9.0 CR		
	PREREQ CCNSENT OF DEPT CHAIRMAN			
1	TC BE ARRANGED			
600	DISSERTATION	C1.0 TO 48.0 CR		
	PREREQ CCNSENT OF DEPT CHAIRMAN			
1	TC BE ARRANGED			

## Special Education (SP E)

200	ORIENT ED EXC CHLD			C2.0 CR	
1*	07.30-08.20	TWTF	WHAM	206	MAINCR
410A	PRCB + CHAR-EMC CH			C4.0 CR	
	PREREQ SP E 414				
1*	12.30-01.20	MTWTF	LAWSON	101	GRCSS
410B	PRCB CHAR MENT RET			C4.0 CR	
	PREREQ SP E 414				
1*	09.30-10.20	MTWTF	LAWSON	101	JCINER
410C	PRCB CHAR GIFT CHLD			C4.0 CR	
	PREREQ PSYC 301 CR 3C3 CR CCNSENT CF INSTR				
1*	09.30-10.20	MTWTF	PULL	43	CASEY
410D	PRCB CHAR ACCUS HCC			C4.0 CR	
	PREREQ PSYC 301 CR 3C3 CR CCNSENT CF INSTR				
1*	01.30-02.20	MTWTF	TECH B	20	STULL
411	ASS + REMED LRN DIS			C4.0 CR	
	PREREQ SP E 414 AND CCNSENT CF INSTR				
1*	08.30-09.20	MT TFF	WHAM	302	FCLT
	08.30-09.20	W	MAIN	102	
413A	DIR CESER-EMOT DIST			C4.0 CR	
	PREREQ CCNSENT CF INSTR				
1*	TO BE ARRANGED				SHEA
413B	DIR CB CF MR CHLD			C4.0 CR	
	PREREQ CCNSENT CF INSTR				
1*	10.30-12.20	T TF	WHAM	321	CCWNEY
	TO BE ARRANGED				
414	THE EXCEPT CHILD			C4.0 CR	
	PREREQ PSYC 301 CR 3C3 CR CCNSENT CF INSTR				
1*	07.30-08.20	MTWTF	WHAM	308	STULL
2*	08.30-09.20	MTWTF	AG	16	WHITESIDE
3*	01.30-02.20	MTWTF	WHAM	308	WHITESIDE
415	ED AC HAND CHLD			C4.0 CR	
	PREREQ CCNSENT CF INSTR				
1*	01.30-02.20	MTWTF	CL	25	CRITTENDEN
420A	MET + MAT-ED EM DIS			C4.0 CR	
	PREREQ SP E 41CA AND CCNSENT CF INSTR				
1*	10.30-11.20	MTWTF	WCCDY	1012	SHEA
420B	METH + MAT TEACH MR			C4.0 CR	
	PREREQ SP E 41CB AND CCNSENT CF INSTR				
1*	02.30-05.00	T TF	WHAM	303	RAINEY
428	SPCH CORR CLASS TCH			C4.0 CR	
	PREREQ IN-SERVICE TEACHER OR GRAD STLUDENTS ONLY				
1*	12.30-01.20	MTWTF	COMM	111	FARGHER
501	SPEC RES PROB			C4.0 CR	
	PREREQ CCNSENT CF STAFF				
1*	TO BE ARRANGED				
513	CRG ADM SP CLASSES			C4.0 CR	
	PREREQ SP E 414				
1*	10.30-11.20	MTWTF	WHAM	328	CROWNER
518A	LEARN + BEHAV DISCR			C4.0 CR	
	PREREQ SP E 414				
1*	09.30-10.20	MTWTF	PULL	41	FCLT
518B	WKSHF-ED M R CHLD			C4.0 CR	
	PREREQ SP E 414				
1*	02.30-05.00	M W	WHAM	212	JCINER + RAINEY
577	PRACTICUM IN SP ED			04.0 TO 12.0 CR	
	PREREQ SP E 41CA, B, C, CR C, AND CCNSENT CF STAFF				
1*	TO BE ARRANGED				SHEA
580B	ED OF MENT RET			C4.0 CR	
	PREREQ SP E 414 AND CCNSENT CF INSTR				
1*	08.30-09.20	MTWTF	WHAM	41	JCINER
596	IND INVESTIGATION			05.0 TO 09.0 CR	
1*	TO BE ARRANGED				
599	THESIS			02.0 TO 09.0 CR	
1*	TO BE ARRANGED				
600	DISSERTATION			01.0 TO 48.0 CR	
1*	TO BE ARRANGED				CROWNER



## Speech (SPCH)

102	PUBLIC SPEAKING			C4.0 CR	
	PREREQ	GSC 103			
1	09.30-10.20	MTW F	COMM	12C	FIBBS
202	PRIN CF DISCUSSION			C3.0 CR	
1	01.30-02.20	MT TH	COMM	12C	
2	02.30-03.20	MT TH	COMM	11E	POTTER
205	ARGUMENT DEBATE			C4.0 CR	
1	09.00-04.00	MTWTF	COMM	21C	
	JULY 1 - JULY 31				
209	FORENSIC ACTIVITIES	01.0	TO C3.0 CR		
	PREREQ	CONSENT OF INSTR			
1	TO BE ARRANGED				KLEINAL
301	PERSUASION			C4.0 CR	
1	01.30-02.20	MTW F	COMM	214	SMITH
309	FORENSIC ACTIVITIES	01.0	TO C4.0 CR		
	PREREQ	CONSENT OF INSTR			
1	TO BE ARRANGED				KLEINAL
422	CRAL INTERP PROC			C4.0 CR	
	PREREQ	GSC 200, SPCH 323	CR	CONSENT CF INSTR	
1	09.30-11.20	M W	COMM	11E	KLEINAL
425	TECH DISC LDRSHIP			C3.0 CR	
1	01.30-02.20	M W F	COMM	122	POTTER
427	SEC SCHL FCREN PRCG			C4.0 CR	
1*	10.30-11.20	MTWTF	COMM	122	ERENIMAN
429	EXP STUD CRAL CCM			C4.0 CR	
1	12.30-01.20	MTWTH	COMM	214	SANDERS
449	GENERAL SEMANTICS			C4.0 CR	
1	08.30-09.20	MTWTH	COMM	214	PAGE
500	SURV CLASSICAL RHET			C4.0 CR	
1	09.30-11.20	M W	COMM	214	NICKEN
510	SEM PERS SCC CCNT			C4.0 CR	
1	09.30-11.20	T TH	COMM	214	SMITH
524B	SEM RHET + PUB ADD			C3.0 CR	
1	07.30-10.20	F	COMM	214	BRADLEY
526	CRAL LANG BEHAVIOR			C4.0 CR	
1	11.30-12.20	MTWTH	COMM	214	HIGGINBOTHAM
530	RESEARCH PROBLEMS	01.0	TO C4.0 CR		
1	TO BE ARRANGED				BRADLEY
599	THESIS	02.0	TO 09.0 CR		
1	TO BE ARRANGED				NICKEN
600	DISSERTATION	01.0	TO 48.0 CR		
1	TO BE ARRANGED				NICKEN

## Speech Pathology and Audiology (SP & A)

200	PHONETICS			C4.0 CR	
1	08.30-09.20	MTWTH	COMM	111	CARLITT
212	ARTIC PRCB DELAY SP			C4.0 CR	
	PREREQ	SP + A 200	CR	CONCURRENT ENROLLMENT IN 200	
1	02.30-03.20	MT TFF	COMM	111	FARGHER
400	IND STUDY-SP+A	02.0	TO C4.0 CR		
	PREREQ	ADVANCED STANDING			
1	TO BE ARRANGED				FOSHIK
405C	PRAC SP + HEAR THER	02.0	TO C4.0 CR		
	PREREQ	JUNIOR MAJORS ONLY AND SP+A 200, 212, AND 31E			PAGE
1	TO BE ARRANGED				
406	HEARING TESTS			C4.0 CR	
	PREREQ	SP+A 41E	CR	CONSENT CF INSTR	
1	01.30-02.20	MT TFF	COMM	111	COPELAND
414	PHYSICL CF SPEECH			C4.0 CR	
1	07.30-08.20	M W F	LS I	113	KAPLAN
	07.30-08.20	T TH	LS I	117	
	SPEECH + HEARING MECH				
415	APHASIA			C4.0 CR	
	PREREQ	SP+A 412, 414	CR	CONSENT CF INSTR	

1	08.30-12.00	MTWTF	COMM	115	PAGE
419	COMM PRCB OF H CF H		C4.C CR		
	PREREQ SP+A 406		CR CCNSENT CF INSTR		
1*	08.30-12.00	MTWTF	COMM	117	CRITTENDEN
428	SP CCRR FCR CL TCH		C4.C CR		
	PREREQ PRACTISING TEACHER, SR		CR GRAD IN EDUC		
1	12.30-01.20	MTWTF	COMM	111	FOSHIK
515	READINGS IN SP+A		C1.C TC C4.C CR		
	PREREQ ADVANCED STANDING				
1	02.30-05.20	W	COMM	117	BRACKETT
	PHYSICLOGIC PHCNOLGY				
516	SEM-PSYCHACACUSTICS		04.0 CR		
	PREREQ SP+A 406, 416 + 420		CRCCNSENT CF INSTR		
1	02.30-04.20	M TH	COMM	117	COPELAND
522C	SEM-CRG SPCH PRCB		C1.C TC C4.C CR		
	PREREQ SP+A 522C		CR CCNSENT CF INSTR		
1*	08.30-12.00	MTWTF	COMM	113	KCEPP-BAKER
530	RES PRCB IN SP+A		C1.C TC C4.C CR		
	PREREQ ADVANCED STANDING - CCNSENT CF INSTR				
1	TC BE ARRANGED				BRUTTEN
534	SEM INSTRUMENTATION		C1.C TC C4.C CR		
1	02.30-04.20	T F	COMM	117	FOSHIK
	RADIOPHCNIC PERCEPTION				
599	THESIS		C2.C TC C9.C CR		
1	TC BE ARRANGED				KCEPP-BAKER
600	DISSERTATION		C1.C TC 48.C CR		
1	TC BE ARRANGED				KCEPP-BAKER

#### Technical & Industrial Education (TIED)

100	ORIENTATION		C2.C CR		
1	03.30-04.20	T TH	TECH A	111	
302	CONSTR MTDS PRI TCH		C4.C CR		
1	07.30-09.20	MTWTH	PULL I	109	SHIELDS
2	09.30-11.20	MTWTH	PULL I	109	JENKINS
3	02.30-04.20	MTWTH	PULL I	109	JENKINS
303	DIVERSIFIED CRAFTS		C4.C CR		
1	12.30-02.20	MTWTH	PULL I	109	
305A	MATERIALS-PROCESSES		C4.0 CR		
1	08.30-09.20	MTWTH	PULL I	148	ECRTZ
319	INDUSTRIAL INTERN		C3.C TC 24.C CR		
	PREREQ CCNSENT OF CCORDINATOR				
1	TC BE ARRANGED				
408	T AIDS IN TECH ED		C3.C CR		
1	02.30-03.20	M W F	TECH A	222	KENNEKE
419	STU TCH IN TECH PRO		C8.C TC 16.C CR		
	PREREQ 9 QTR HRS PROFESSIONAL I ED-GRAD STUDENTS ONLY				
1	TC BE ARRANGED				
420A	ENTRPRS-MANMACH SYS		C4.C CR		
	PREREQ 20 HRS IN TECHNICAL AND INDUSTRIAL EDUCATION				
1*	01.30-02.20	MTWTF	PULL I	14	SULLIVAN
425	PRACTICUM IN TECH		C2.C TC C8.C CR		
	PREREQ 12 HNI IN TECHINICAL SUBJECTS				
1	TC BE ARRANGED				
430	SPECIAL PROBLEMS		C2.C TC C8.C CR		
	PREREQ CCNSENT CF INSTRUCTOR				
1	TC BE ARRANGED				
450	ADV SKILLS TECH SLB		C1.0 TC 12.C CR		
	PREREQ BASIC TRAINING IN AREA SELECTED FCR STUDY				
1*	08.30-09.20	MTWTF	PULL I	17	KENNEKE
	VISUAL COMMUNICATIONSS				
2	09.00-12.00	MTWTF	PULL I	16	SULLIVAN
	01.00-03.00	MTWTH	PULL I	16	
	AUGUST 18-22, ENERGY AND PCWER				
3	09.30-12.20	MTWTF	PULL I	148	ECRTZ
	01.30-03.20	MTWTH	PULL I	148	
	AUGUST 11-15, MATERIALS AND PROCESSES				

480	CURR DEV-IND ART ED		C3.0 CR	
	PREREQ 20 HRS IN TIEC			
1*	10.30-11.20	MTWTF	TECH D 131	ERICKSON
485	PRIN-PHIL VO TEC ED		C3.0 CR	
	PREREQ STUDENT TEACHING		CR CONSENT OF	DEPARTMENT
1	08.30-10.20	MTWTF	TECH D 130	RAMP
	JUNE 23-JULY 11			
491B	PRIN IND TEACHING		C3.0 CR	
	PREREQ 491A			
1	11.30-12.20	MTWTF	TECH A 220	ECRTZ
525	INTER VCC CCCP ED		C3.0 CR	
	PREREQ STUDENT TEACHING			
1	10.30-12.20	MTWTF	TECH D 130	SULLIVAN
	JUNE 23-JULY 11			
540	RESEARCH TECH EDUC		C2.0 TC 6.0 CR	
1*	02.30-03.20	MTWTF	TECH C 131	ERICKSON
541	OCCUP INFO AND GUID		C4.0 CR	
1*	11.30-12.20	MTW F	TECH A 214	RAMP
	11.30-12.20	TF	TECH A 222	
560	NEW DEVEL-TECH EDUC		C2.0 TC 12.0 CR	
1	09.30-10.20	MTWTF	TECH A 220	
	12.30-01.20	MTWTF	TECH A 220	
	JUNE 17-27			
2	09.30-10.20	MTWTF	TECH A 220	
	12.30-01.20	MTWTF	TECH A 220	
	JUNE 30-JULY 11			
3	09.30-10.20	MTWTF	TECH A 220	
	12.30-01.20	MTWTF	TECH A 220	
	JULY 14-25			
4	09.30-10.20	MTWTF	TECH A 220	
	12.30-01.20	MTWTF	TECH A 220	
	JULY 28-AUGUST 8			
570	SPECIAL INVESTIGAT		C2.0 TC 6.0 CR	
1	TC BE ARRANGED			
599	THESIS		C1.0 TC 09.0 CR	
1	TC BE ARRANGED			ERICKSON, RAMP, STADT

### Theater (THEA)

203	VOICE AND DICTION		C4.0 CR	
1	10.30-11.20	M W	COMM 118	FARRISON
	10.30-11.20	T TH	COMM 120	
208	DRAMATIC ACTIVITIES		C1.0 TC 3.0 CR	
1	02.30-03.20	M W	COMM 161	ZOECKLER
217	ACTING		C4.0 CR	
1	11.30-12.20	MTWTF	TECH 106	FARRISON
	JUNE 17 - JULY 14, MOVES TO		COMM 161 JUL 12 - AUG 30	
308	DRAMATIC ACTIVITIES		C1.0 TC 3.0 CR	
1	02.30-03.20	M W	COMM 161	ZOECKLER
322	THEATER PRACTICUM		C2.0 TC 12.0 CR	
1	08.40-10.10	MTWTF	COMM 137	MOE
	MEETS 8.40 AM TO 10.10 PM, DEPT CONSENT REQUIRED			
402A	PLAY DIRECTING		C4.0 CR	
1*	12.30-01.20	MTWTF	COMM 161	ABRAMS
402B	PLAY DIRECTING		C4.0 CR	
1*	01.30-02.20	MTWTF	COMM 161	ABRAMS
409	H S THEATRE		C4.0 CR	
1*	08.30-09.20	MTWTF	COMM 111	ZOECKLER
444	CONTEMP DANCE WKSTP		C2.0 TC 08.0 CR	
1*	01.00-05.00	MTWTF	GYM 208	GRAY
502	ADV DIRECTING		C4.0 CR	
1	03.30-04.20	MTWTF	COMM 161	ABRAMS
519	THEATER PRACTICUM		C1.0 TC 12.0 CR	
1	08.40-10.10	MTWTF	COMM 137	MCE
	MEETS 8.40 AM TO 10.10 PM, DEPT CONSENT REQUIRED			
526	SEM IN THEATRE ARTS		C3.0 CR	
	PREREQ GRAD STANDING + CONSENT OF DEPT			

	1	TC BE ARRANGED			MCE
		STOCK COMPANY MEMBERS ONLY			
530		RESEARCH PROBLEMS	C1.C TC C4.C CR		
	1	TC BE ARRANGED			
599		THESIS	C1.C TC C9.C CR		
	1	TC BE ARRANGED			

**Zoology (ZOOL)**

103	GEN VERT ZOOLOGY								
	PREREQ	GSA 201 A + B							
1	07.30-08.20	M W	LS I	205	GEORGE				
	07.30-10.20	T TH	LS I	206					
202	COMPAR ANATOMY VERT								
	PREREQ	ZOOL 103							
1	07.30-08.20	T TH	LS I	205	BRANCCN				
	07.30-09.20	M W F	LS I	206					
310	ANIMAL ECOLOGY								
	PREREQ	ZOOL 102,103							
1	12.30-01.20	M W F	WHAM	325					
	12.30-04.20	T	LS I	204					
321	HISTOLOGICAL TECHN								
	PREREQ	1 YR CF BIC SCIENCE CR CONSENT CF INSTRUCTOR							
1	08.30-09.20	T TH	LS I	205					
	07.30-09.20	M W F	LS I	205					
322	PROBLEMS IN ZOOLOGY								
	PREREQ	4.25 GPA SENIOR STANDING AND APPROVAL CF DEPT CR FAC							
1	TO BE ARRANGED								
382	ZOOL SENIOR SEMINAR								
	PREREQ	SENIOR STANDING							
1	09.30-10.20	W	LS I	16	GEORGE				
402	NAT HIST INVERT								
	PREREQ	1 YR CF ZOOL INCLUDING 102							
1*	12.30-01.20	M W F	AG	202					
	12.30-03.20	T TH	LS I	130					
403	NAT HIST VERT								
	PREREQ	1 YR CF ZOOL INCLUDING 103							
1*	01.30-02.20	M W F	AG	202	GEORGE				
	02.30-04.20	M W F	LS I	204					
404	ZOOLOGY FIELD STUD								
	PREREQ	CONSENT CF DEPT							
1	TO BE ARRANGED								
408	HERPETOLOGY								
	PREREQ	1 YR CF ZOOL INCLUDING 103							
1	11.30-12.20	M W	LS I	205	BRANCCN				
	12.30-04.20	TH	LS I	204					
409	HISTOLOGY								
	PREREQ	ZOOL 202							
1	10.30-11.20	M W F	LS I	205					
	10.30-12.20	T TH	LS I	211					
414	FRESH-WATER INVERT								
	PREREQ	1 YR CF ZOOL INCLUDING 102							
1	12.30-01.20	T F	WHAM	212					
	12.30-04.20	M	LS I	130					
471	ENTOMOLOGY								
	PREREQ	ZOOL 102							
1	09.30-10.20	T TH	LS I	205					
	09.30-11.20	M W	LS I	213					
2	09.30-10.20	T TH	LS I	205					
	11.30-01.20	M W	LS I	213					
512	ANIMAL GEOGRAPHY								
	PREREQ	CONSENT OF INSTRUCTOR							
1	09.30-10.20	M W F	LS I	205					
579	ANIMAL BEHAVIOR								
	PREREQ	CONSENT OF INSTRUCTOR							



1	02.30-03.20	T TH	WHAM	305
	12.30-04.20	W	AG	132
582A	GRADUATE SEMINAR		CO.5	CR
1	08.30-09.20	TH	TECH A	111
596	SPECIAL RESEARCH		C3.C TC 12.0	CR
	PREREG CCNSENT OF INSTRUCTOR			
1	TC BE ARRANGED			
599	THESIS		C2.C TC C9.C	CR
1	TC BE ARRANGED			
600	DISSERTATION		C3.C TC 48.C	CR
1	TC BE ARRANGED			

SCHEDULE OF VOCATIONAL-TECHNICAL INSTITUTE COURSES

COURSE & SECTION NO.	TITLE & HOURS	DAYS	BLDG. & RM.	INSTRUCTOR
-------------------------	------------------	------	----------------	------------

General Studies Area A—Man's Physical Environment and Biological Inheritance (GSA)

101A	INTRC-PHYS SCIENCE		C4.C	CR
9C1	12.30-01.20	MTWTF	M3	101
9C2	01.30-02.20	MTWTF	M3	101

General Studies Area B—Man's Social Inheritance and Social Responsibilities (GSB)

201C	CULT-SCCIETY-BEHAV		C4.C	CR
9C1	12.30-01.20	MTWTF	F1	143
9C2	03.30-04.20	MTWTF	F1	143
211B	POLITICAL ECONMY		C4.C	CR
9C1	12.30-01.20	MTWTF	M1	143
9C2	02.30-03.20	MTWTF	M1	143

General Studies Area D—Organization and Communication of Ideas (GSD)

101	ENGLISH COMPOSITION		C3.C	CR
9C1	12.30-01.20	M W F	F3	153
9C2	01.30-02.20	M W F	F3	153
9C3	02.30-03.20	M W F	F3	153
102	ENGLISH COMPOSITION		C3.C	CR
9C1	02.30-03.20	M W F	F9	101
103	ORAL COMM OF IDEAS		C3.C	CR
9C1	07.30-08.20	MTWTF	H9	101
9C2	12.30-01.20	MTWTF	F9	101

Mathematics (MATH)

111A	CCL ALGEBRA TRIG		C5.C	CR
9C1	03.30-04.20	MTWTF	H3	151

Accounting (\*ACC)

101C	ACCOUNTING		C4.C	CR
1	08.30-09.20	MTWTF	FI	111
104	SECRETARIAL ACCTG		C2.C	TO C5.C
1	09.30-10.20	MTWTF	FI	111
2	06.30-09.00 PM	T TF	FI	111
109A	CALC MACH		C3.0	CR
1	07.30-08.20	MTWTF	FI	113
2	01.30-02.20	MTWTF	FI	113
3	06.30-09.00 PM	M W	FI	113
126	FUND CF BUSINESS		C3.0	CR
1	11.30-12.20	M W F	FI	108
2	12.30-01.20	M W F	FI	108
226A	BUSINESS LAW		C4.0	CR
1	02.30-03.20	MTWTF	FI	108
226B	BUSINESS LAW		C4.0	CR
1	12.30-01.20	MTWTF	FI	111
227	OFFICE ADMIN + SUP		C4.0	CR
	PREREQ *ACC 126			
1	10.30-11.20	MTWTF	FI	108

Architectural Drafting (\*AD)

110A	ARCHITECT DRAFTING		C5.0	CR
	PREREQ	MUST BE TAKEN IN A,B SEQUENCE		

1	07.30-11.20	M W F	MI	108	
146A	FREEHAND ARCH GRAPH		C3.C	CR	
1	08.30-11.20	T TH	MI	108	LCUGEAY
147	HISTORY ARCHITECT		C3.C	CR	
1	11.30-12.20	M W F	MI	112	LCUGEAY

### Aviation Technology (\*AT)

101	ARCFT RECIPROCAT FP		C6.0	CR	
1	08.30-09.20	M W F	AVTECH	101	
	09.30-12.20	M W F	AVTECH	102	
102	CARB + LUB SYSTEMS		C6.C	CR	
1	08.30-12.20	T TH	AVTECH	102	
	01.30-02.20	M W F	AVTECH	103	
103	ARCFT ELECT GEN-ALT		C6.C	CR	
1	07.30-08.20	MTWTF	AVTECH	101	
	08.30-10.20	M W F	AVTECH	102	
104	PROPELLERS		C5.0	CR	
1	08.30-09.20	T TH	AVTECH	103	
	09.30-12.20	T TH	AVTECH	102	
	01.30-02.20	F	AVTECH	101	
105	AIRCRAFT INSTRUMENTS		C4.C	CR	
1	03.30-04.20	T TH	AVTECH	101	
	01.30-03.20	T TH	AVTECH	102	
	11.30-12.20	W	AVTECH	101	
106	ARCFT IGN-START SYS		C5.C	CR	
1	07.30-10.20	T TH	AVTECH	102	
	10.30-11.20	T TH	AVTECH	103	
	07.30-08.20	W	AVTECH	101	
107	FABRIC-WOOD-DOING		C4.C	CR	
1	08.30-10.20	W	AVTECH	103	
	11.30-12.20	T TH	AVTECH	101	
	12.30-03.20	T TH	AVTECH	102	
108	JET PROPELLSION PP		C6.C	CR	
1	12.30-01.20	M W F	AVTECH	101	
	01.30-03.20	M W F	AVTECH	102	
	10.30-11.20	W	AVTECH	103	
109	POWERPLANT TESTING		C4.C	CR	
1	10.30-11.20	M F	AVTECH	103	
	07.30-10.20	M F	AVTECH	102	
110	AIRC STRUCT AND REP		C3.C	CR	
1	07.30-08.20	F	AVTECH	103	
	03.30-04.20	T TH	AVTECH	103	
203	AERODYNAMICS		C5.0	CR	
1	08.30-09.20	M F	AVTECH	101	
	09.30-11.20	M F	AVTECH	102	
208	ARCFT FUEL SYSTEMS		C2.C	CR	
1	07.30-09.20	T	AVTECH	102	
	02.30-03.20	TH	AVTECH	101	
209	WT BALANCE INSPECT		C6.0	CR	
1	07.30-09.20	M W F	AVTECH	102	
	09.30-10.20	MTWTF	AVTECH	101	
220	JET TRANS AIR SYS		C3.C	CR	
1	01.30-03.20	T	AVTECH	103	
	07.30-09.20	TH	AVTECH	102	
	12.30-01.20	F	AVTECH	103	
230A	PRIVATE PILOT		C2.C	CR	
1	02.30-03.20	M W F			PATCHETT
230B	PRIVATE PILOT		C1.C	CR	
1	TC BE ARRANGED				PATCHETT

### Automotive Technology (\*AUT)

101A	AUTO LAB--ENG		C5.C	CR	
1	07.30-10.20	MTWTF	L2	108	WILLEY
125A	AUTO THE--ENGINES		C5.0	CR	
1	10.30-11.20	MTWTF	L2	105	WILLEY

**Commercial Art (\*CA)**

101	ART ANALYSIS			C3.C	CR	
1	07.30-08.20	M W F	L3	115	PCFFMAN	
125	TECHNIQUES			10.C	CR	
1	08.30-11.20	M W F	L3	115	PCFFMAN	
	07.30-11.20	T TH	L3	115		

**Correction and Law Enforcement (\*CLE)**

215	SUP PRAC IN CRIM			C9.C	CR	
1	TC BE ARRANGED					

**Cosmetology (\*COS)**

101A	COSMETCLOGY LAB			C7.C	CR	
1	07.30-11.20	MTWTF	NI	107		
	01.30-03.20	MTWTF	NI	107		
101C	COSMETCLOGY LAB			C7.C	CR	
1	07.30-11.20	MTWTF	NI	107		
	01.30-03.20	MTWTF	NI	107		
2	08.30-10.20	MTWTF	NI	101		
	11.30-03.20	MTWTF	NI	101		
125A	COSMETCLOGY THEORY			C5.0	CR	
1	11.30-12.20	MTWTF	NI	106	BLANTON	
125C	COSMETCLOGY THEORY			C5.0	CR	
1	03.20-04.20	MTWTF	NI	106	BLANTON	

**Dental Hygiene (\*DH)**

140	DENTAL PHARMACLOGY			C2.C	CR	
	PREREQ MUST BE TAKEN CONC WITH 129 PREREQ *GEN 115					
1	11.30-12.20	M TH	FI	11C	BUSHEE	
209	DENT HYG CLIN /S/			C5.C	CR	
	PREREQ SOPHOMORE STATUS IN DENTAL HYGIENE CONCENTRATION					
1	08.30-11.20	M W T F F	F3	132		
	11.30-12.20		F	FI	11C	
2	12.30-03.20	M W T F F	F3	132		
	11.30-12.20		F	FI	11C	
218A	CLIN DENT RENTGEN			C2.0	CR	
	PREREQ *DH 132,137,*GEN 115 CSA 301 SCFH STANDING IN *DH					
1	08.30-10.20	T	FI	11C	BUSHEE	
2	01.30-03.20	T	FI	11C	BUSHEE	

**Data Processing (\*DP)**

101A	AUTO DATA PRCC MACH			C3.C	CR	
1	10.30-11.20	MTWTF	H4	134		
	11.30-12.20	MTWTF	H4	136		
2	01.30-02.20	MTWTF	H4	134		
	02.30-03.20	MTWTF	H4	136		
103B	CCMP PRCG			C5.0	CR	
1	11.30-12.20	MTWTF	H4	134		
	12.30-01.20	MTWTF	H4	136		
104	DP INFO			C5.0	CR	
	PREREQ *DP 100A,101					
1	07.30-08.20	MTWTF	H4	134		
	08.30-09.20	MTWTF	H4	136		
107	DATA PROCESS INFO			C2.C	CR	
	PREREQ *DP 101					
1	07.30-08.20	M W F	H4	133		
	07.30-08.20	T TH	H4	136		
2	10.30-11.20	M W F	H4	133		
	10.30-11.20	T TH	H4	136		
109	PUNCHED CARD PREP			C3.C	CR	
1	08.30-09.20	MTWTF	H4	136		
206A	PROG SYST			C3.C	CR	
	PREREQ *DP 202, 203					
1	12.30-01.20	MTWTF	H4	134		
	01.30-02.20	MTWTF	H4	136		



207	DP FIELD PROJ				C5.0	CR	
	PREREQ	*DP 206A					
1	TC BE ARRANGED						

### Dental Lab Technology (\*DT)

113B	SCIENCE DENT MATLS				C3.0	CR	
	PREREQ	*GEN 115A					
1	08.30-11.20	T	FI		144	WILLIS	
2	01.30-04.20	T	FI		144	WILLIS	
	DENTAL HYGIENE STUDENTS ONLY						
125A	DENT PROCTH THEORY				C3.0	CR	
1	08.30-09.20	M W F	FI		110	LEEBENS	

### Electronics Technology (\*ELT)

101A	BASIC ELEC AP + SYS				C4.0	CR	
1	09.30-11.20	MTWTF	M3		109	CADWELL	
125A	BASIC ELECT THEC				C5.0	CR	
1	08.30-09.20	MTWTF	M3		110	CADWELL	
127	BASIC TECH CONCEPTS				C3.0	CR	
1	07.30-08.20	M W F	M3		110	CADWELL	

### Forest Products Technology (\*FP)

101A	WOODWORK-MACHINE				C5.0	CR	
1	08.30-11.20	T TH	L4		108	CSBCRN	
	09.30-12.20	M W F	L4		108		
125A	PRCD WOODWKG THEORY				C3.0	CR	
1	08.30-09.20	M W F	L4		106	CSBCRN	
128	WOOD TECH				C4.0	CR	
1	01.30-02.20	M W	L4		106	CSBCRN	
	01.30-03.20	T TH	L4		106		

### General (\*GEN)

102	TECHNICAL WRITING				C3.0	CR	
1	11.30-12.20	M W F	H3		153		
2	01.30-02.20	M W F	H3		101		
106	ELEM MATH				C0.0	CR	
1	12.30-01.20	MTWTF	H3		151		
107A	BUS + TECH MATH				C3.0	CR	
	PREREQ	SATISFACTORY ACT MATH	SCCRE	CR	*GEN 106		
1	09.30-10.20	M W F	H3		151		
2	11.30-12.20	M W F	H3		151		
107B	BUS + TECH MATH				C3.0	CR	
	PREREQ	SATISFACTORY ACT MATH	SCCRE	CR	*GEN 106		
1	01.30-02.20	M W F	H3		151		
2	02.30-03.20	M W F	H3		151		

### Mortuary Science (\*MS)

101A	FUNERAL HIST + CUST				C3.0	CR	
1	12.30-01.20	M W F	L3		109	THORSELL	
101B	FUNERAL HIST + CUST				C3.0	CR	
1	01.30-02.20	M W F	L3		109	THORSELL	
275	FUNERAL SER INTERN				10.0	CR	
	PREREQ	ALL OTHER REQMENTS OF THE MORTUARY SCI CURR MUST MEET					
1	TC BE ARRANGED					FERTZ	
280	FUNERAL SERVICE SEM				C2.0	CR	
	PREREQ	CONCURRENT REGISTRATION IN VTI U 275					
1	TC BE ARRANGED					FERTZ	

### Machine Drafting and Design Technology (\*MT)

101A	GRAPHICS				C7.0	CR	
1	08.30-11.20	MTWTF	MI		101	BEAUCHAMP	
175A	TECHNICAL DRAWING				C3.0	CR	
1	11.30-12.20	MTWTF	MI		101	BEAUCHAMP	

**Practical Nursing (\*PN)**

102	PRACTICAL NURSING I				07.0	CR	
	PREREQ 101						
1	08.00-12.00	M	H5	210		MITCHELL	
	TC BE ARRANGED						
	01.00-04.00	MTWTF	F5	210			
103A	CLINICAL NURSING				06.0	CR	
1	08.00-12.30	MTWTF				MITCHELL	
	08.00-12.00	F	H5	210			
	01.00-04.00	F	F9	201			
	TC BE ARRANGED						
103C	CLINICAL NURSING				12.0	CR	
1	TC BE ARRANGED						
	08.00-12.00	F	H5	210			
	01.00-04.00	F	H9	201			

**Printing Technology (\*PT)**

101A	PRESS LAB-HAND PLAT				06.0	CR	
1	08.30-11.20	MTWTF	L3	110			
125A	PRESS THE-HAND PLAT				03.0	CR	
1	07.30-08.20	M W F	L3	109			
235	PRINT TECH + PRACT				02.0	CR	
	PREREQ N210A,B AND 230A,B						
1	12.30-02.20	T TH	L3	109		CORNELL	

**Retailing Cooperative (\*RET)**

124	INTRC TC RETAILING				04.0	CR	
1	09.30-10.20	MTWTF	H1	143		ELDER	
176	PRODUCT ANALYSIS				03.0	CR	
1	08.30-09.20	M W F	H3	151		ELDER	
177A	PRODUCT INFO LAB				05.0	CR	
1	10.30-12.20	MTWTF	F1	112		ELDER	
201A	CO-OP WORK EXP				08.0	CR	
1	TC BE ARRANGED					THOMPSON	
2	TC BE ARRANGED					THOMPSON	
208A	FASHION MERCH				04.0	CR	
1	09.30-10.20	MTWTF	H3	153		SODERSTROM	
215	MARKETING PROBLEMS				04.0	CR	
1	11.30-12.20	MTWTF	F1	143		SODERSTROM	
280	RETAIL CRED + CCL				03.0	CR	
1	10.30-11.20	M WTF	H3	153		SODERSTROM	

**Secretarial (\*SCR)**

100	CLERICAL PROCEDURES				03.0	CR	
1	01.30-02.20	M W F	FI	111			
101A	TYPEWRITING				03.0	CR	
1	08.30-09.20	MTWTF	FI	121			
101C	TYPEWRITING				03.0	CR	
1	06.30-09.00 PM	M W	FI	107		JOHNSTON C.	
104A	SHORTHAND				06.0	CR	
1	12.30-02.20	MTWTF	FI	121			
107	FILING + DUPLICTG				03.0	CR	
	PREREQ 101A CR CONSENT OF ADVISER						
1	10.30-11.20	MTWTF	FI	102			
2	03.30-04.20	MTWTF	FI	102			
3	06.30-09.00 PM	M W	FI	103			
205A	TYPEWRITING				03.0	CR	
1	03.30-04.20	MTWTF	FI	107			
206	MACH TRANSCRIPTION				03.0	CR	
1	06.30-09.00 PM	T TH	FI	103			
214	CCCP SEC EXP				02.0 TC	05.0 CR	
1	TC BE ARRANGED						JOHNSTON C.

**Tool and Manufacturing Technology (\*TT)**

101A	M TOOL LAB-ENG BEN				05.0	CR	
1	08.30-11.20	MTWTF	LI	101		MUNICH	

176A	MANUFACTURING PROC				C3.C CR	
1	07.30-08.20	M W F	LI		105	BEALCHAMP

**Welding (\*WEL)**

101A	WELDING LABORATORY				C5.C CR	
1	07.30-10.20	MTWTF	M4		107	CALLMAN
125A	WELDING THEORY				C5.C CR	
1	10.30-11.20	MTWTF	M4		102	CALLMAN

**This form is provided for your use in establishing a tentative class schedule before coming to the Registration Center.**

2. Avoid scheduling two classes at the same time.

3. It is suggested that you make an alternative schedule.

4. Tentative class schedules are subject to the rules and policies on registration of the University and the Registration Center.

[illegible]





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[illegible]











**Southern Illinois University Bulletin**  
Carbondale, Illinois 62901

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A

ADDENDUM

SUMMER 1969

CHANGES

ADDITIONS

DELETIONS

CANCELLATIONS

To the Bulletin of Classes

STUDENTS: Check all courses added or changed  
with this addendum.

DO NOT REMOVE FROM DESK





CHANGES MADE TO THE  
SUMMER SCHEDULE

100-400 Level Courses

GSA

- 301, ADD  
Sect. 6, 9:30 MWF L 171  
10:30-12:20 Tu LS 113  
Sect. 7, 9:30 MWF L 171  
10:30-12:20 Th LS 113
- 303, ADD  
Sect. 6, 9:30 M L 151  
9:30-11:30 TTH LS 307
- 322, ADD  
Sect. 5, 7:30 MW Ag 214  
4:30-6:20 W Ag 171

GSB

- 102A, Sects, 1-11 CANCELLED
- 201B, ADD  
Sect. 9, 6:30-8:10p MW Hec 102  
Sect. 10, 12:30 MT THF LS 323  
Sect. 11, 9:30 MT THF LS 323
- 201C, ADD  
Sect. 11, 10:30-12:00 MW C1 109  
10:30 F C1 109  
Sect. 12, 10:30-12:20 T TH Hec 106
- 321, Sect. 1 CANCELLED
- 331, Sect. 7 CANCELLED
- 345-3, Intro to Amer For Policy  
Sect. 1, 7:30 MWF Wham 317

GSC

- 103, Sect. 1,12,14 CANCELLED  
ADD  
Sect. 15, 12:30 MWF Wham 329  
Sect. 16, 11:30 MWF Park 111

103, ADD  
 Sect. 17, 10:30 M F Ag 220  
           10:30 W Comm 116  
 Sect. 18, 12:30 MWF Gym 203  
 201, Sect. 6, CANCELLED  
 202, Sect. 4, CANCELLED  
 209, Sect. 1,4,6 CANCELLED  
 210, Sect. 1,5 CANCELLED

GSD

101, ADD  
 Sect. 41, 6:30-9:30p W Little Grassy  
 140A, ADD  
 Sect. 2, 8:30 MWTH Warren 129  
           8:30 Tu Whlr 5

GSE

113D, Sect. 1,2 CANCELLED  
 114A, ADD  
 Sect. 2, 1:30-3:00 T TH Gym 208  
 114D, ADD  
 Sect. 2, 12,30 MWF U Ctr  
 114H, Add  
 Sect. 7, 8:30-10:00 T Th Gym 114

ANIMAL INDUSTRIES

319, Sect. 1 CANCELLED

ART

200A, Sect. 1, Arr to Meet 7:30-9:20 MWF  
           0549 101  
 416, ADD  
 Sect. 1, Studio Prints TBA  
           (2 to 12 credits)

BOT

405, Sect. 1, CANCELLED

CHEM

350-4, ADD  
Sect. 1, Biological Chem 3:30 MWF  
Phy Sc 218  
1:30-4:00 T Phy Sc 204  
3:30 M W F Phy Sc 218  
DES

366-5 ADD  
Sect. 1, Prod- Shelter Design TBA  
375-5 ADD  
Sect. 1, Visual Design TBA

ECON

441, ADD  
Sect. 2, 7:30 MTWTH Wham 210

ELED

101, Sect. 2,5,6 CANCELLED  
101, ADD  
Sect. 7, 8:30 MWF Felts 130  
413, Sect. 1, CHANGE TH meeting to 2:30 in L 171  
Sect. 2, CHANGE TH meeting to 2:30 in L 171

ENGR

311C Sect. 1, CHANGE TU meeting to W

E-T

314A-3 ADD  
Sect. 1, Engr Materials 1:30-4:20  
TTh Tech D 12

342A-3 ADD  
Sect. 1, Engr Tech Design 10:30  
MWF Tech A 221

ENG

300B, Sect. 2, CHANGE WF meeting to TTH in  
Hec 102



302A, Sect. 1, CANCELLED  
400, Sect. 1, CHANGE to meet 10:30 MTTH  
to Hec 102  
F in Wham 301B

FIN

320, ADD  
Sect. 3, 2:30 MTWTHF Wham 302  
323, ADD  
Sect. 2, 1:30 MTWTh Pull 45A  
373, Sect. 1, CANCELLED  
421, ADD  
Sect. 2, 12:30 M L 201  
12:30 TWTH Hec 102

FL

Span 201A Sect. 1, CANCELLED  
Span 500 Sect. 1, Add 11:30 MW meeting  
6 weeks course

GEOG

404A, Sect. 1, CANCELLED

GUID

422A, Sect. 3, 12:30 M Hec 202,  
12:30 TWTHF Hec 206  
8 weeks course

HED

445S, Sect. 2, CANCELLED  
461, Sect. 1, Should be offered for 04.0 cr hrs.  
480S-4, ADD  
Sect. 1, Workshop in Safety Ed  
1:30-5 pm MTWThF L-ApS 135  
Meets for first eight weeks

H Ed

481S-4 ADD Sect. 1  
Workshop--Safety Ed  
1:30-5 pm MTWThF L-ApS 135  
Meets July 14-Aug. 8

H&F

407 Sects. 1-3  
Offered for 2 credit hrs only  
471-2 to 6 ADD Sect. 1  
Field Experience  
To be arranged

HEED

485-3 ADD Sect. 1  
Princ-Phil of Voc Tech Ed  
8:30-10:20 MTWThF Tech D 130  
Meets June 23-July 11

TIED

496-3 ADD Sect. 1  
Select & Organ of Subj  
2:30 MTWTh Tech D 33

IM

470-4 ADD Sect. 1  
Programmed Institutions  
10:30 MTWThF Wham 212

LAS

300-1 to 4 ADD Sect. 1  
Ind Interdis Read  
To be arranged  
301-1to4 ADD Sect. 1  
Ind Interdis Research  
To be arranged

LAS

302-1 to 4 ADD Sect. 1  
Ind Interdis Field Study  
To be arranged

MGT

170-4 ADD Sect. 1  
Intro to Bus  
9:30 T ThF Wham 202  
9:30 M W Cl 21  
Restricted to Consent of Department  
481 Sect. 2 CHANGE F mtg to 8:30-10:20

MKTG

363 ADD Sect. 2  
10:30 TWThF Pull 38  
390 ADD Sect. 2  
9:30 TW Bailey 130  
9:30 ThF HEc 206

MATH

111B ADD Sect. 5  
11:30 M Tech a 320  
11:30 TWThF Tech A 310  
150A ADD Sect. 4  
10:30 MTWThF LS 16

MUS

414-2 ADD Sect. 1  
Collegium Musicum  
To be arranged  
454-3 ADD Sect. 1  
Inst Mater & Tech  
9:30-4:30 MTWThF Morris Lib. Aud  
Meets July 21-25

MUS

455-3 ADD Sect. 1  
E1 Music Ed Workshop  
9-12 MTWThFS Altg 15  
Meets June 23-July 3

PEW

420-4 ADD Sect. 1  
Effects of Motor Activ  
8:30 MTWThF Arena 125  
Eight week course  
Cross-listed with PEM 420

PHYS

207A Sect. 1 CHANGE Tu mtg to Th  
Sect. 2 CHANGE Th mtg to Tu  
211C ADD Sect. 2  
8:30 MTWThF Park 308  
2:30-4:20 Th Phy Sc 407  
410B ADD Sect. 1  
Intro to Electro Mag Wave Theory  
11:30 M W F Phy Sc 404

PHSL

300 Sect. 1 CANCEL  
Sect. 2 CANCEL  
300N ADD Sect. 2  
8:30 MTWTh Lawson 201  
9:30-11:20 Th LS 18  
300N ADD Sect. 3  
8:30 MTWTh Lawson 201  
7:30-9:20 F LS 18

PR S

399-2 to 6 ADD Sect. 1  
Honors Papers  
To be arranged



PL I

- 317-4 ADD Sect. 1  
Insects, Pests & Control  
1:30 M W LS 205  
1:30-3:20 T Th LS 213  
Cross-listed with Zool 316
- 390 ADD Sect. 2  
To be arranged

R-T

- 383 Sect. 1 CHANGE to meet  
7:30 M W  
7:30-9:20 F

REHB

- 481 Sect. 1 CANCEL

RELS

- 320B-3 ADD Sect. 1  
Biblical Studies in Hist & Lit  
8:30 M W F HEc 120

S ED

- 310 ADD Sect. 6  
7:30 MTWth Lawson 131
- 352 ADD Sect. 25  
To be arranged--Language Arts
- 487 Sect. 2 CANCEL
- 495-3 ADD Sect. 1  
Prob Related to Teach Disadv  
8:30-4:30 MTWThF Wham 114  
Meets June 9-13

SOC

435 Sect. 1 CHANGE to meet:  
7-10 pm M Wham 206

ZOOL

310 Sect. 1 CANCEL

316-4 ADD Sect. 1  
Insect Pests & Their Control  
1:30 M W LS 205  
1:30-3:20 T Th LS 213  
Cross-listed with Pl I 317

402 ADD Sect. 2  
12:30 M W F Wham 202  
7:30-10:20 M W LS 130  
Eight week course

407-5 ADD Sect. 1  
Parasitology  
10:30 M W LS 205  
10:30-12:20 T ThF LS 211

409 Sect. 1 CANCEL

414 Sect. 1 CANCEL



Southern Illinois University  
*Bulletin*

*1969/1970 Graduate School Catalog*  
*Edwardsville Campus*





## OBJECTIVES OF SOUTHERN ILLINOIS UNIVERSITY

### TO EXALT BEAUTY

*In God,  
in nature, and  
in art;  
Teaching how to love the best  
but to keep the human touch;*

### TO ADVANCE LEARNING

*In all lines of truth  
wherever they may lead,  
Showing how to think  
rather than what to think,  
Assisting the powers  
of the mind  
In their self-development;*

### TO FORWARD IDEAS AND IDEALS

*In our democracy,  
Inspiring respect for others  
as for ourselves,  
Ever promoting freedom  
with responsibility;*

### TO BECOME A CENTER OF ORDER AND LIGHT

*That knowledge may lead  
to understanding  
And understanding  
to wisdom.*

# Southern Illinois University *Bulletin*

*1969/1970 Graduate School Catalog  
Edwardsville Campus*



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## This Issue . . . . .

of the *Southern Illinois University Bulletin* covers in detail questions concerning the Graduate School and applies to the Edwardsville Campus. It supersedes Volume 9, Number 5.

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Division of Technical and Adult Education.  
Graduate School Catalog (Carbondale or Edwardsville).  
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Student Work and Financial Assistance.  
Undergraduate Catalog. The catalog is available for examination in high school guidance offices and libraries throughout Illinois and in some other states. Copies will be furnished free to educational institutions upon request and to new students upon matriculation. A copy of either edition (Carbondale or Edwardsville) of the catalog may be purchased at the University Bookstore for \$1; mail orders should be sent to Central Publications and must include remittance payable to Southern Illinois University.

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## University Calendar

*SPRING, 1969* Quarter Begins Wednesday, March 26 \*  
 Memorial Day Holiday Friday, May 30  
 Final Examinations Wednesday–Tuesday, June 4–10  
 Commencement (Edwardsville) Tuesday, June 10  
 Commencement (Carbondale) Wednesday, June 11

*SUMMER, 1969* Quarter Begins Tuesday, June 17 \*  
 Independence Day Holiday Friday, July 4  
 Final Examinations Monday–Friday, August 25–29  
 Commencement (Edwardsville) Friday, August 29  
 Commencement (Carbondale) Saturday, August 30

*FALL, 1969* New Student Week Sunday–Tuesday,  
 September 21–23  
 Quarter Begins Wednesday, September 24 \*  
 Thanksgiving Vacation Tuesday, 10 P.M.–  
 Monday, 8 A.M., November 25–December 1  
 Final Examinations Monday–Saturday,  
 December 15–20

*WINTER, 1970* Quarter Begins Monday, January 5 \*  
 Final Examinations Monday–Saturday,  
 March 16–21

*SPRING, 1970* Quarter Begins Monday, March 30 \*  
 Memorial Day Holiday Friday, May 29  
 Final Examinations Monday–Saturday, June 8–13  
 Commencement (Carbondale) Friday, June 12  
 Commencement (Edwardsville) Saturday, June 13

\* Classes begin with the evening classes after 5:30 P.M. on the Carbondale Campus and with the evening classes after 4:30 P.M. on the Edwardsville Campus.

# Board of Trustees and Officers of Administration

## BOARD OF TRUSTEES

*Term expires*

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# 1 / The Graduate School

## **The Role of the Graduate School**

The Graduate School is the central agency for organizing and supervising all graduate work of the University and for facilitating the research of the University. It plays an essential role in the development of instructional and research programs, in the acquisition of funds, and in the procurement of facilities necessary to encourage and support the research of the members of its scholarly community. In addition, the Graduate School is a major contributor to the public services provided by the University to the region, the state, the nation, and a number of other countries. In all of its programs of instruction and research, the Graduate School sets a high standard of achievement. It is in those students who have demonstrated this quality of excellence by completing advanced courses of study and by achieving significant results in their research that the Graduate School makes its major contribution to the public welfare.

## **Lovejoy Library**

The Elijah P. Lovejoy Library contains about 310,000 volumes, 150,000 government document items, 50,000 maps, 8,000 phonograph records, and a number of special research collections. About 50,000 volumes are added annually and 3,500 periodicals are subscribed to. The Alton and East St. Louis Libraries also contain about 15,000 volumes each, mostly chosen to support the General Studies programs at those locations. In addition, the resources of the Morris Library at Carbondale, approaching a million volumes, are available to faculty and graduate students. A printed catalog and other aids are available for the identification of materials which may be borrowed. Similarly accessible are the 2,000,000 volumes of the Center for Research Libraries, Chicago. Special memberships also permit faculty and graduate students to use the St. Louis Mercantile Library and the Missouri Historical Society Library.

Some of the areas of particular strength are:

1. A comprehensive collection of all English language trade publications, excluding some highly specialized fields, from most major countries.
2. A documents collection of about 150,000 items, including most of those published by the United States Government, the State of Illinois, the United Nations, and many other state, national, and international agencies.
3. A map collection consisting of about 50,000 maps, chiefly those of the Army Map Service and the United States Topographical Survey.
4. A considerable collection of curriculum guides, children's books, current school texts and other specialized materials in education.
5. Files of Negro newspapers on microfilm.



6. A collection of documents on more than eighty reels of microfilm on the history of the Mormons in Illinois.

7. Over 20,000 items of sheet music and scores of American popular music.

8. Over 8,000 phonograph records, including a large number of spoken word records and lectures.

9. A Slavic and East European collection of about 4,000 volumes which includes a large number of rare Czech-American imprints.

10. Several thousand books, pamphlets, newspaper issues and periodicals, many of them in German, on the history of Naziism and related movements in the United States.

11. A collection of about 3,000 anti-slavery pamphlets on microcards, which is part of the Library's larger collection devoted to abolitionist literature and to both historical and contemporary civil rights literature.

The Lovejoy Library is also a major source of materials on the history of the region which the Edwardsville Campus serves.

Lists of current periodicals and other serials are available. Further information on the collections of Lovejoy and Morris Libraries may be obtained in the December, 1968, issue of the Missouri Library Association *Quarterly*.

### **Research**

Research is the special concern of the Graduate School because its faculty must engage in scholarly research activities to maintain its effectiveness and also because advanced instruction of graduate students consists mainly of guidance in research. For these reasons, University policies governing research are developed by the Graduate School and administered through it.

The Office of Research and Projects has been established in the Graduate School to assist in the continuing development of the research activities of the University. University support for individual research projects is available to faculty members through the special research projects program administered by this office. The Office of Research and Projects also supervises cooperative research projects and particularly assists applicants in the preparation and submission of research proposals that involve outside support from such sources as government, foundations, business, and industry.

### **Data Processing and Computing Center**

The Data Processing and Computing Center of Southern Illinois University is a centralized facility which was established in 1962 to serve the research, instruction, administration, and area service computer needs of the University. The center is presently located in the basement of the Communications Building in rooms 0112 to 0124 and room 0185. A classroom for computer instruction is located in room 0186.

The center is equipped with an IBM 1620, 40 K, card and disk system devoted 100 percent to research and instruction and an IBM 1401, 8 K, 5 tape, 1 disk system that is used for instruction, administration reports, and some smaller research projects. An IBM 7044, 32 K word, 10 tape, 2 fixed disk system is available at the Carbondale Campus for the solution of larger problems. At noon of any day, the larger problems are placed in

the mail shuttle service, and the solution is returned the next day. The Carbondale center also has an MCR Docutran optical scanner for processing information directly from coded sheets.

The facilities are available for laboratory and demonstration purposes, for credit and non-credit instruction in all departments, for faculty and graduate university-sponsored research, for faculty and graduate externally sponsored research, for faculty and graduate independent research and for contract work after assignment of a project number.

There is no charge for the use of the center's facilities in connection with independent and university-sponsored research projects for faculty or graduate students which are not supported or are supported by funds that are limited to the regular state budget appropriations. The center charges for utilization in connection with an externally sponsored research project supported by contract with a government agency, a foundation, an industry, or business and covered by an itemized budget. Persons negotiating such contracts shall be expected to anticipate the need for center usage and to cover the cost of such services in the contracts.

An informal non-credit short course is offered each quarter for faculty and graduate students to introduce the FORTRAN computer language, the library of computer programs, and the open shop policy. For problem solutions not in the present library of programs on the computer, the faculty may program the problem or rely on the staff resources of the center. The graduate student should expect to utilize the staff resources only for brief consultation under the present open shop policy.

### **Fellowships and Assistantships**

Graduate fellowships are available in all areas of graduate study upon application to the appropriate chairman, and are awarded by the Graduate School upon a basis of scholarship. Recipients are permitted to carry normal graduate schedules. The stipend for the academic year is normally \$2115 to \$2250, plus remission of tuition but not other fees. There is no work requirement. Fellowships are ordinarily renewable for the summer quarter following the period of appointment. Students seeking a master's degree may hold a fellowship for no more than four quarters. Fellowships for the summer depend upon recommendation by the student's major department. All application materials should be submitted before February 1 preceding the academic year for which the fellowship is desired. Inquiries may be addressed to the Dean of the Graduate School or to the major chairman.

Teaching, research, and other assistantships are available in a number of departments and research agencies. These positions pay a stipend which ranges from \$200 to \$325 per month, with the exact amount depending upon the assignment, experience, and academic achievement of the student. Remission of tuition is granted, but fees must be paid. Service of twenty hours per week, or corresponding load in teaching, is required. Assistants must carry no more than 12 hours and no less than 6 hours of credit per quarter. Students holding assistantships through the academic year will ordinarily be eligible for remission of tuition when enrolled for the following summer quarter whether or not they hold an assistantship for that quarter. Inquiries should be addressed to the appropriate chairman before February 1 preceding the academic year for which the assignment is sought.



### Housing

Graduate students may use the listings of accepted facilities maintained in the Housing Office, or they may seek housing on their own. All arrangements for housing and all business transactions in the matter of housing are the sole responsibility of the student and the owner of the housing facility.

The University has under construction at the present time 248 apartment units consisting of two- and three-bedroom furnished and unfurnished apartments. To secure further information concerning the procedures for making application and the qualifications to live in University housing, contact should be made with the Housing Office, Southern Illinois University, Edwardsville, Illinois 62025.

### Admission to the Graduate School

A student should obtain application forms from the Graduate School and submit application, together with transcripts and other supporting material, directly to the Graduate Admissions Office where it is evaluated for compliance with Graduate School admission requirements. Only if these are met and if the student seeks a degree is the application forwarded to the faculty in which the student indicates his desired major. The admission requirements of the Graduate School and the faculty must both be met before the student is admitted either conditionally or unconditionally, and both the Graduate School and the faculty may specify conditions. Several faculties require additional materials such as test scores or letters of recommendation. The student is informed of his admission status after this process has been completed. Admission to the Graduate School is determined almost entirely by the caliber of the applicant's previous college work.

To permit sufficient time for application to be processed, these deadlines for receipt of applications and official transcripts have been set:

1. *The second Saturday in July for admission to the fall quarter.*
2. *The last Saturday in October for the winter quarter.*
3. *The last Saturday in January for the spring quarter.*
4. *The last Saturday in March for the summer quarter.*

Applications which are incomplete on the deadline date or are received later may be granted unclassified (non-degree) admission status for the quarter for which admission was originally sought. The application papers continue to be processed for admission to a degree program only for the quarter following the one originally applied for. If the student decides to enter as an unclassified student, this in no way influences the decision relative to his acceptance as a degree candidate. Whether work taken by a student who is unclassified because of late application later counts toward a degree is decided by the Graduate School and the faculties concerned.

A student who wishes to enter the Graduate School immediately after graduation may submit his application when he is within one quarter or semester of graduation. He must also submit a transcript showing the work he has completed and the courses he is taking.

An undergraduate student who is within 16 quarter hours of a bachelor's degree may take courses for graduate credit by applying for admis-

sion to the Graduate School in the usual way. At the time of registration, he must also obtain the approval of the graduate dean to take such courses for graduate credit. He remains an undergraduate student officially until he completes his baccalaureate requirements.

A student who is applying for an assistantship or fellowship and who submits a transcript in support of that application must also submit an application for admission and transcripts directly to the Graduate School for admission processing.

#### *Admission to Graduate Study for the Master's Degrees*

In order to receive *unconditional admission* from the Graduate School for study at the master's level, the applicant must hold a bachelor's degree and have a grade-point average of 3.70 or higher ( $A=5.00$ ).

A student with a grade-point average of 3.40, but less than 3.70, may be granted *conditional admission* and will remain on conditional status until he earns 15 or more quarter hours of credit in graduate-level courses without obtaining more than one *C* grade and without obtaining any grade lower than *C* during the conditional period. No credit of *C* or lower earned while on conditional status will be applied on a master's program. In addition, the conditionally admitted student must satisfy the Graduate English requirement before completing more than 24 quarter hours. Failure to meet these conditions will result in a student's being dropped from the degree program. A department, faculty, or other degree-program unit may add its own conditions for admission regardless of the grade-point average.

A student with an undergraduate grade-point average below 3.40 may be admitted only as an unclassified student.

#### *Admission to Graduate Study for the Specialist's Certificate*

An applicant for admission to graduate study beyond a master's degree may be admitted either conditionally or unconditionally. Conditions may be prescribed by both the Graduate School and the faculty of the program in which an applicant wishes to pursue his course of study. A student should first submit his application, together with transcripts and other supporting materials, to the Graduate Admissions Office where it is evaluated for compliance with admission requirements of the Graduate School. If these are met, the Graduate School forwards the credentials to the academic unit offering the major he indicates on his application, for action on admission to its degree program.

Admission to the Sixth-Year Specialist's Certificate Program is based on an applicant's previous academic record, his educational experience, and his proposed goal. A graduate grade-point average of 4.25 on a five-point grading scale is required. A master's degree from an accredited institution is regarded as the basic academic requirement for one wishing to pursue the sixth-year program.

The Dean of the Graduate School informs each student of any conditions imposed by the Graduate School or by the academic unit of his major. Among these conditions may be the successful completion of entrance examinations. All conditions must be fulfilled before the student can be admitted unconditionally. A student seeking admission to a master's or Sixth-Year Specialist's Certificate Program offered in the Education Division will ordinarily consult the adviser listed on page 8 for the faculty in which approval for a particular major is sought.



### *Admission to Graduate Study as an Unclassified Student*

A student may apply for admission to the University as an unclassified (non-degree seeking) student when he does not seek a graduate degree or certificate, when he has applied too late for the term for which he seeks admission, or when he wishes to qualify for admission to a degree program because his scholastic record does not qualify him for conditional admission. A student who seeks admission as an unclassified graduate student must present evidence that he holds a bachelor's degree.

*Qualifying work* has been established in order that students whose undergraduate grade-point averages are below the minimum required for admission to a master's program (3.4 on an  $A = 5.0$  scale) may prove themselves capable of better academic performance and thereby *qualify* for *consideration* for admission. Once a student has made formal application for admission to the Graduate School and has officially been informed that his grade-point average is below the minimum requirement, he may then apply for admission as an unclassified graduate student to pursue qualifying work.

A student whose average is between 3.2 and 3.399 may qualify for consideration by earning a 4.0 or better in not less than 12, nor more than 24, quarter hours of 300- or 400-level courses and by passing the Graduate English requirement. If he earns a 4.0 in the first 12 quarter hours, that is all he is required to take. If he does not earn a 4.0 in the first 12 quarter hours, he may continue until he has a total of 24 quarter hours, in an attempt to raise the grade-point average to 4.0.

A student whose average is between 3.0 and 3.199 may qualify for consideration by earning a 4.0 or better in 24 quarter hours of 300- or 400-level courses and by satisfactory completion of the Graduate English requirement.

No applicant with an undergraduate grade-point average below 3.40 may take more than 24 quarter hours in seeking to qualify for admission, and no more than one-half of the work should be taken in a single subject area.

Successful completion of this work does *not* assure the student of admission, but only of consideration by the department of his choice. It is solely the department's decision to accept the student into their master's program. Therefore, it is strongly suggested that the student seek the advice of the graduate adviser in the department before and while he is doing qualifying work.

### *Admission of International Students*

A student from abroad is subject to all requirements for admission established by the Graduate School. In addition, he must complete special forms pertaining to the admission of international students. For these admission forms and for other information concerning international students, inquiries should be sent to the Director of Foreign Admissions, Registrar's Office, Southern Illinois University, Edwardsville, Illinois 62025.

International students whose native tongue is not English are required to demonstrate proficiency in the English language through the following procedures.

1. A minimum score of 450 on the Test of English as a Foreign Language (TOEFL) is required for consideration for admission. Information

on this test and on the dates and places of testing may be obtained from the Educational Testing Service, Box 899, Princeton, New Jersey.

2. Students with a TOEFL score of 550 or more are admitted unconditionally to the Graduate School, if other academic requirements have been met.

3. Students with a TOEFL score between 450 and 549 are admitted to the Graduate School conditionally, if other academic requirements have been met, pending the results of tests which are taken upon the students' arrival at Southern Illinois University.

4. Students who fail the locally-administered examinations are required to take and pass intensive English proficiency work here, or its equivalent at some other institution, before they are admitted unconditionally to degree programs at Southern Illinois University or are allowed to take academic work counting towards a degree at Southern Illinois University.

To allow ample time for visa and other departure procedures, the applicant should have his application and all supporting documents on file with the University no less than four months prior to his proposed entry date.

An international student must be enrolled in a program leading to a graduate degree. He cannot be admitted as an unclassified student.

If the above requirements are satisfactorily met and the student is admitted to a degree program, he is required to certify to the University that he has adequate financial resources available to him to undertake and continue in a program of study.

### **Advisement**

Each student admitted to the Graduate School is expected to consult a graduate adviser in the faculty of his major for assistance in planning his total program and in choosing courses each quarter. As soon as the student gains approval for a thesis topic and a thesis director, the latter is designated as chairman of the advisory committee. This committee advises the student in the preparation of the thesis, evaluates its quality when completed, and supervises the final examination, written or oral, when one is required.

Maximum course work for graduate students is 18 hours each quarter; 12 hours is considered a normal load. The maximum for teaching assistants, graduate interns, and research assistants, who are employed half-time, is 12 hours and the minimum is 6 hours; for persons who are employed full-time the maximum is 8 hours; for persons attending the eight-week summer session, the maximum is 12 hours. These maxima may be exceeded only with the written permission of the Dean of the Graduate School.

A graduate student is expected to plan his work carefully. Program changes after registration must be approved by the student's adviser and the Dean of the Graduate School. They may involve payment of a program change fee. Program change forms may be obtained from the Graduate Office.

The graduate student must assume responsibility for his progress by keeping an up-to-date record of the courses he has taken and by consulting periodically with his adviser. Responsibility for errors in program or in interpretation of regulations of the Graduate School and the University rests entirely upon the student. Advice is always available on request.



*Graduate Advisers*

Following is the list of advisers to graduate students pursuing a master's degree at Edwardsville.

Art—Harry H. Hilberry	Government—Daniel McHargue
Behavioral Science—Paul Campisi	Health Education *—Zadia Herrold
Biological Sciences—	History—Herbert Rosenthal
Ralph Axtell	Instructional Materials *—
Business Administration *—	Eldon Madison
I. A. Hardy	Mathematics—Robert N. Pendergrass
Business Education—Mary M. Brady	Music—Warren A. Joseph
Chemistry—William J. Probst	Philosophy *—George W. Linden
Counselor Education—John McBride	Physical Education *—Zadia Herrold
Economics *—Howard Dye	Physics—Lionel Walford
Education, General—Gordon C. Bliss	Psychology—Erwin Brinkmann
Educational Administration and	Secondary Education—
Supervision—George C. Ackerlund	Myllan Smyers
Elementary Education—	Sociology—Paul Campisi
Arthur Jordan	Special Education—Faye Shaffer
Engineering *—Julius Brown	Speech *—Hollis L. White
English—William C. Slattery	Speech Pathology and Audiology *—
Foreign Languages—	Hollis L. White
Alfred G. Pellegrino	Theater *—Andrew J. Kochman
Geography—Melvin Kazeck	

\* Course work only offered at this time.

**Tuition and Fees**

The tuition and fees charged students are established by the Board of Trustees and are subject to change whenever conditions make changes necessary. At the present time, fees per quarter for graduate students are as follows:

	Not more than 5 hrs.	More than 5, less than 11	11 or more
Tuition Fee—Illinois Resident . . . . .	\$14.00	\$28.00	\$42.00
Tuition Fee—Out of State . . . . .	(30.00)	(115.00)	(172.00)
Student Welfare and Recreation			
Building Trust Fund Fee . . . . .	5.00	10.00	15.00
Student Activity Fee . . . . .	3.50	7.00	10.50
University Center Fee . . . . .	5.00	5.00	5.00
Athletic Fund Fee . . . . .	3.00	6.50	10.00
<i>Total</i> —Illinois Resident . . . . .	30.50	56.50	82.50
<i>Total</i> —Out of State Resident . . . . .	(46.50)	(143.50)	(212.50)

The student activity fee includes the fees for limited hospitalization, entertainment, partial athletics, the student newspaper and yearbook, and such other privileges as may be provided.

Teaching assistants and fellows do not pay tuition and have an option on paying the student activity fee. They pay other fees.

In addition to the above fees, a student is subject to certain other charges under the conditions listed below:

1. A matriculation fee of \$5, which is assessed a graduate student the first time he registers if he is not a graduate of Southern Illinois University.

2. A late registration fee, which is \$2 for the first day and which increases \$1 each day to a maximum of \$5 when a student registers after the regular registration period has ended.

3. A \$2 program-change charge whenever a student changes his program from the one for which he originally registered, unless the change is made for the convenience of the University.

4. A graduation fee of \$17.

5. Other charges a student may incur are those for field trips, library fines, and excess breakage. A student taking a course involving use of materials, distinct from equipment, ordinarily pays for such materials.

### **Student Work and Financial Assistance**

The University maintains an Office of Student Work and Financial Assistance Program, which includes work on and off campus, cooperative work-study programs, summer employment, the federal work-study programs, and scholarships, awards, prizes, grants-in-aid, private agency awards, and student loan funds.

Additional information may be obtained from the Director of Student Work and Financial Assistance Program.

### **University Placement Services**

The University Placement Services assists students seeking employment after completion of their education. Its facilities are free to students, who are urged to register or up-date their papers during the fall quarter of each academic year. All inquiries concerning this service should be made to the Director of the University Placement Services.

### **Health Services**

The University maintains a health center which covers all types of medical services with a full-time physician on duty.

### **Graduate Degrees Offered**

Graduate degrees are available in the following fields:

#### ***MASTER OF ARTS***

Behavioral Science  
Biological Sciences  
English  
Geographical Studies  
Government  
History  
Mathematical Sciences  
Psychology  
Sociology

#### ***MASTER OF FINE ARTS***

Art

#### ***MASTER OF MUSIC EDUCATION***

Music

#### ***MASTER OF SCIENCE***

Behavioral Science  
Biological Sciences  
Chemistry  
Geographical Studies  
Mathematical Sciences

Physics  
Psychology

#### ***MASTER OF SCIENCE IN EDUCATION***

Art Education  
Biological Sciences  
Business Education  
Chemistry  
Counselor Education  
Educational Administration and  
Supervision  
Educational Psychology  
Elementary Education  
English  
Foreign Languages  
Geography  
Government  
History  
Mathematics  
Physics  
Secondary Education  
Special Education



### Grading System

Grades are recorded by the letters *A*, *B*, *C*, *D*, and *E* (*A*=5.00). Other grades may be:

*W*—Authorized withdrawal made through a program change where no basis for evaluation has been established. Work may not be completed. This grade is not included in grade point computation for retention purposes.

*Wp*—Authorized withdrawal made after first four weeks through a program change with a passing grade. Work may not be completed.

*WE*—Authorized withdrawal made through a program change after the first four weeks with failing grade. Work may not be completed, but grade is included in calculation of average.

*Inc*—Incomplete. Has permission of instructor to be completed within a time period designated by instructor, but not to exceed one year from the close of quarter in which course was taken. If *Inc* remains, it is not included in grade point computation. To complete the work, a student should not register for the course again but should complete the work from the original registration.

*Def*—Deferred. Used only for graduate courses of an individual, continuing nature such as thesis or research. When the work is completed, grade is changed to a letter grade.

*Abs*—Unauthorized withdrawal. Used when student fails to continue in attendance, but does not withdraw through a program change. Counted as an *E* in calculating grade-point average.

*S*—Satisfactory. Used only for noncredit courses.

*U*—Unsatisfactory. Used only for noncredit courses.

*Au*—Audit. A student registering for a course on an *audit* basis receives no letter grade and no credit hours. An auditor's registration card must be marked accordingly, and he pays the same fees as though he were registering for credit. A student registering for a course for *audit* may change to a credit status or vice versa through the official program change method during the first four weeks of a quarter. Thereafter the change may not be made.

Note: Letter grades *A*, *B*, *C*, *D*, and *E* as well as the grades *WE* and *Ab* are included in grade-point averages for academic retention. Authorized withdrawals made through a program change during the first four weeks of the term do not carry a grade. No credit is allowed toward a graduate degree for courses in which a grade below *C* is earned.

### Master's Degrees

#### GENERAL REQUIREMENTS

Forty-eight hours of acceptable graduate credit are required for a master's degree, except for the program in Fine Arts where 60 hours are necessary. At least 24 hours must be earned in courses numbered 500 or above. No more than 16 hours earned for work done at another university, or in extension, or both together, may be counted toward the degree. An evaluation of transfer credit is made in every case and may result in a reduction of the credit offered. Only in unusual circumstances is transfer credit given for work bearing a grade below *B*. No credit toward the degree may be earned by correspondence.

Only credit earned within a six-year period preceding the completion of requirements for the degree, whether at Southern Illinois University or elsewhere, is counted toward the degree.

Ordinarily a graduate student is expected to select both a major and a minor field, but he may be permitted by his advisory committee and the Dean of the Graduate School to concentrate his efforts in one particular area of study. The graduate major, in most fields, consists of a minimum of 30 hours of credit in the chosen area of study; some fields, however, require as many as 40 hours for the major, in which case no minor is required. The graduate minor consists of a minimum of 15 hours. A student may have a double major recorded upon completing the necessary number (60 hours) of designated courses.

Each candidate for a master's degree shall write a thesis except where a graduate program has been approved by the Graduate Council to provide for some other arrangement. The thesis may be counted for not more than 9 nor less than 5 quarter hours of credit. For nonthesis programs, a research paper should show evidence of the student's knowledge of research techniques and should be based on a special project or specific courses as may be recommended by the advisory committee. The subject of the thesis is to be reported to the Graduate School by the student and is to be approved by the chairman of the advisory committee and the Dean of the Graduate School at least two quarters before the date of graduation. Two copies of the approved thesis (the original and first carbon) must be presented to the Graduate School at least five weeks prior to the date of graduation, to be bound and shelved in the library.

Each candidate for a master's degree is required to pass a comprehensive examination covering all of his graduate work, including the thesis. This examination may be written or oral, or both, as determined by the student's advisory committee.

Each student whose native tongue is not English, and others having an undergraduate grade-point average below 3.70, must satisfy the graduate English requirement by passing the Graduate English Examination. The examination is offered once each quarter and should be taken the first quarter the student enrolls. After two failures, a period of six months must elapse before the student may take it again. After three failures, the student may not attempt the examination without permission from the Graduate Dean. The English requirement must be satisfied before the student has completed 24 quarter hours except the qualifying student who must pass it before being admitted to a degree program.

Candidates are expected to meet requirements in force during the year of graduation, but due consideration is given the fact that a student may have been admitted and may have planned his work when other requirements were current. Important changes in requirements are put into effect gradually. It is especially important that the following data should be kept up to date on the student's record in the graduate office: the major and minor, the degree for which the student is a candidate, the name of the chairman of the advisory committee, and the thesis adviser.

Whenever a student's grade-point average falls below 4.0, his standing is in jeopardy. When a student has accumulated 24 quarter hours of work after admission to a degree program, and has 8 or more quarter hours of *C* or *below* in 400- or 500-level courses, *not balanced* by *A* in 400- or 500-level courses, he will be dropped from the Graduate School and is not again admissible to a degree program.



The following deadlines are stated for the guidance of the candidate for the master's degree:

1. The Graduate English examination is to be taken by a conditionally admitted student during the first quarter in which he is enrolled in a course given for residence credit.

2. Any foreign language requirement is to be met at least three months prior to graduation.

3. The thesis subject is to be approved by the chairman of the advisory committee at least twenty weeks before the date of graduation and is then to be reported by the student to the Graduate School.

4. The completed thesis accepted by the advisory committee should be presented to the Dean of the Graduate School at least five weeks before graduation.

5. The preliminary checkup and application for graduation are to be made with the Graduate School and the Registrar's Office at least five weeks prior to the graduation date. Application for graduation forms, which may be secured from the Registrar's Office, should be completed and returned to that office after payment of the graduation fee at the Bursar's Office.

#### MASTER OF ARTS AND MASTER OF SCIENCE DEGREES

A reading knowledge of a foreign language is required in all cases for the Master of Arts degree. The foreign language requirement is to be fulfilled at least three months prior to graduation. For the Master of Science degree, this requirement is adjusted to the field of study chosen by the candidate.

#### MASTER OF FINE ARTS DEGREE

Sixty hours of acceptable graduate credit are required for the Master of Fine Arts degree, of which a minimum of 30 hours must be on the 500 level. A thesis is required.

#### MASTER OF MUSIC EDUCATION DEGREE

Forty-eight hours of acceptable graduate credit are required for the Master of Music Education degree candidate, of which a minimum of 24 hours must be on the 500 level. A thesis or a recital and a supporting paper is required.

#### MASTER OF SCIENCE IN EDUCATION DEGREE

Forty-eight hours of credit are required for the Master of Science in Education degree. A candidate for the degree who is a prospective teacher in the public schools of Illinois must meet the minimum education requirements for teaching in Illinois as established by the State Teacher Certification Board. Any exception to this rule must be approved by the Dean of the Education Division, and the Dean of University Graduate Studies and Research. The student should seek counsel regarding the completion of these requirements before his first enrollment for graduate work.

A thesis is not normally expected of students working towards this degree; instead, a research paper is required and the student is required to take Educational Administration 500 or a similar research course, as well as Counselor Education 420 or 422 in lieu of the thesis. There is no foreign language requirement for the Master of Science in Education degree.

## 2 / Instructional Units

THE MASTER OF ARTS and the Master of Science degrees, with work in behavioral science, biological sciences, chemistry, English, geography, government, history, mathematics, physics, psychology, and sociology are offered on the Edwardsville Campus. The Master of Fine Arts degree, the Master of Music Education degree, and the Master of Science in Education degree, the latter with programs in business education, counselor education, educational administration and supervision, elementary education, special education, and approved areas of secondary education may also be completed on the Edwardsville Campus.

### Art

Graduate programs in art lead to the Master of Fine Arts or Master of Science in Education degree. In addition to the general rules, regulations, and requirements of the Graduate School, the following specific requirements pertain to these degrees. The faculty should be consulted for complete details.

#### *Master of Fine Arts Degree*

The Master of Fine Arts degree is a professional degree intended to further the individual artistic development of each degree candidate, and is designed to provide him with professional competencies in one or more of the creative arts of sculpture, painting, printmaking, and ceramics, or in the specialized areas of art education.

*Prerequisites.* 9 hours of Art History; 50 hours of Studio courses; 12 hours of Art Education (For Art Education option only).

Approval by the Graduate Faculty of a portfolio of work in the areas of intended specialization. (This material should be submitted only when requested and may be either originals or good photographs.)

*Specializations.* A candidate for the Master of Fine Arts degree has the option of specializing in one of the four major studio areas of sculpture, painting, printmaking, or ceramics, or may combine a reduced studio emphasis with specialization in art education. The candidate must accumulate a minimum of 60 quarter hours of graduate credit, 30 hours of which must be at the 500 level. He must satisfy the following course requirements:

1. Studio majors only: A minimum of 20 hours in one major area and a minimum of 32 hours in studio courses.

2. Art Education option only: A minimum of 12 hours in one studio area and a minimum of 24 hours of studio courses.

3. Art Education option only: A minimum of 16 hours of art education.

4. All candidates: A minimum of 12 hours of graduate art history; a minimum of 3 hours of graduate drawing; a minimum of 5 hours of Thesis 599.

*Thesis.* The candidate specializing in a studio area presents a thesis in-



volving his major field. The thesis consists of a final studio project(s) accompanied by written and photographic records and explanations, in proper thesis form, and the presentation of a thesis exhibition of the candidate's works designed and hung by the candidate. For the art education specialization, the candidate presents a thesis which may be experimental, historical, or descriptive, but includes evidence of academic knowledge of the general area which he is investigating.

*Examinations.* Examinations for the Master of Fine Arts degree consist of both written and oral examinations and include a defense of the thesis. These examinations are scheduled and supervised by the candidate's major professor and where possible, the examining committee for oral examinations is comprised of the student's graduate committee. The candidate is given reasonable and proper notice of the dates of both written and oral examinations.

### *Master of Science in Education Degree*

This degree is given in cooperation with Secondary Education. The Faculty of Art and Design administers and provides the work in Art Education and Studio Areas. Applicants for this program should have an undergraduate degree in art or art education, and may be required to take additional undergraduate courses if needed as preparation for graduate offerings.

The requirements for this degree total a minimum of 48 quarter hours. These hours are distributed as follows: 16 hours in education; 32 hours in art education, art history, and studio; 5 to 9 hours to be devoted to either thesis work or research work. Such work results in the writing of a thesis or a research paper. The candidate must participate in an oral examination of the above-mentioned thesis or research paper.

### **Behavioral Science**

The program leading to the Master of Arts and the Master of Science degrees in Behavioral Science is offered by the combined Faculties of Anthropology, Psychology, and Sociology. A coordinating committee consisting of representatives of the respective departments has the responsibility for coordinating the program.

The program in Behavioral Science consists of 48 hours of course work in anthropology, psychology, and sociology excluding thesis credit. A core curriculum aimed at giving students a broad understanding of the three disciplines involved consists of the following courses:

- |   |         |
|---|---------|
| 1. Pro-Seminar in Cultural Anthropology | 8 hours |
| 2. Pro-Seminar in Psychology            | 8 hours |
| 3. Seminar in Sociological Theory       | 4 hours |
| 4. Seminar in Social Psychology         | 4 hours |

Exceptions to the core courses may be approved by a student's advisement committee (described below). The important aspect of this program is that it gives the student a broad appreciation of the three disciplines and indicates their interrelatedness. The core, other graduate level courses, and individual research are meant to be flexible to meet individual student needs. It should be noted parenthetically that the program does not include equivalent courses which other programs now offer for certification for teachers, counselors, or psychologists. The committee, in consultation with the student, determines the final program.

Students are routinely expected to meet all course prerequisites. For example, in the case of the Pro-Seminar in General Psychology, these include a previous course in Introductory Psychology, Statistics, and Experimental Psychology.

*Admission:* To enroll in this program a student must satisfy the admission requirements of the Graduate School for unconditional admission and must have been approved by the Graduate Dean and the Chairman of the Behavioral Sciences and Psychology Faculties respectively upon the recommendation of the interdisciplinary coordination committee responsible for the administration of the Behavioral Sciences Program. Students who show high promise but who do not meet the above admissions requirements are considered for conditional admission by the committee.

*Examination:* A student must demonstrate general knowledge of the three subject areas by satisfactory performance on a comprehensive written examination. The examination is taken only after completion of the 24 hours core program.

*Thesis:* He must complete a thesis, or in exceptional cases with the approval of the coordinating committee, present an acceptable research paper demonstrating basic research competence.

Interested students may write to or consult with the Chairman of the Behavioral Sciences Faculty or the Chairman of the Psychology Faculty for more detailed information.

### **Biological Sciences**

Graduate work in the biological sciences may be taken as a major or a minor toward the Master of Arts, Master of Science, and Master of Science in Education degrees.

A student with a baccalaureate degree who satisfies the general admission requirements may apply for admission to the biological sciences program. The entering graduate student should have completed basic background preparation in the biological sciences, plus organic chemistry, one year of physics, and one year of college mathematics. Deficiencies in undergraduate preparation may be removed concurrently with graduate work. The results of the Graduate Record Examination (GRE), including the advanced test in biology, must be submitted before or during the first quarter of graduate work. Students admitted conditionally to the Graduate School must have a GRE score of 950 or higher (combined quantitative and verbal) to be admitted to the M.A. or M.S. programs.

Completion of work for the Master of Arts and Master of Science degrees requires at least 32 hours in biology including: an acceptable thesis, Biology 501, continuous attendance in Biology 590, four courses in biology from numbers 400–489, 502–589, and a minimum of 8 hours of supporting work outside of the department. Election of a minor is optional. The Master of Arts degree requires a reading knowledge of a foreign language. The Master of Science degree requires demonstrated competence in any one of the doctoral research tools which is deemed appropriate for the student's program. Either one of these two programs is appropriate for students preparing to teach biology in junior college.

Students who satisfy the requirements for admission to the Graduate School and who have been approved for work in secondary education by the Education Division may qualify for teaching field study in the biological sciences. Entrance into the program requires an undergraduate



preparation of at least 20 junior-senior hours in the biological sciences, one year of college chemistry, and one course in physics or a suitable equivalent. This preparation should have included work in both botany and zoology, a course in genetics, physiology, and at least one field course. Any deficiencies involving the above requirements may be completed concurrently with work toward the degree. In addition to the requirements of the Education Division, the student matriculating for this degree must earn at least 16 hours and may earn as many as 32 hours of graduate credit in the biological sciences. Completion of the Master of Science in Education degree requires at least one quarter of Biology 504 (Instructional Innovation), and one quarter of Biology 590 (Graduate Seminar).

Areas of specialization possible within the biological sciences include biogeography, cellular biology, developmental biology, ecology, herpetology, ichthyology, mammalogy, micro-anatomy, parasitology, plant anatomy and morphology, sensory physiology, and taxonomy of vascular plants.

### **Business Education**

Graduate courses in business teacher education are taken as a major in the Faculty of Business Education leading to the Master of Science in Education degree. This program consists of a minimum of 48 quarter hours of course work distributed as follows: 24–32 quarter hours in Business Education and other Business Division courses; 8–16 quarter hours in Education Division courses; and 0–16 quarter hours of electives.

The graduate program is planned for those students who have an adequate subject matter and professional education background with teaching qualifications in at least one of the following business teaching areas: bookkeeping and accounting, data processing, basic business, consumer economics, distributive education, and secretarial and clerical.

Deficiencies in background must be eliminated by taking appropriate courses before the completion of 24 hours on the master's program. Those students who do not meet state certification requirements at the beginning of their program must do so in order to qualify for the degree.

The graduate program is aimed at upgrading and making more proficient those individuals who have already met or surpassed the minimum requirements for teaching business subjects in the high schools of Illinois. The dual purpose of the program is to provide advanced professional education in business teaching fields and to develop competence in utilizing research findings in the field. In keeping with the general requirements of the Graduate School, each student is required to write a research paper. Those who have special interest and ability in research or who expect to go on to advanced graduate study are encouraged to write a thesis.

Specific requirements for the degree in addition to the general requirements of the Graduate School include:

1. Indication of proficiency in the subject matter and professional education areas as shown on a written examination taken during the last quarter of the graduate program or upon completion of all course work.

2. Indication of ability to explain and defend thesis as demonstrated on final oral examination. In the case of failure to pass either of these examinations, either one may be repeated, with committee approval, within a two-year period after additional preparation through course work, individual study, or revision of thesis.

3. Required courses in Business Education:

Business Education 500—Principles and Problems of Business Education.

Business Education 502—Research in Business Education.

Business Education 503—Tests and Measurements in Business Education.

4. Required core in professional education:

Measurement and Statistics—Met by Business Education 503.

Research—Met by Business Education 502.

One course from each of two of the following areas:

a. Curriculum:

Education Administration 560—Curriculum.

Secondary Education 562—Workshop in High School Curriculum.

b. Developmental Psychology and Learning:

Counselor Education 511—Educational Implications of Learning Theories.

Counselor Education 515—Psychological Aspects of Education.

Counselor Education 562b—Human Development in Education (Adolescence).

c. Social Foundations:

Education Administration 431—History of Education in the United States.

Education Administration 554—Contrasting Philosophies of Education.

Education Administration 502—Seminar in Comparative Education.

5. A minimum of 5 hours and a maximum of 9 hours' credit in Business Education 599 (Thesis) is allowed for those students who choose to write a thesis.

The Graduate Committee consists of three members with the chairman from the Faculty of Business Education.

## Chemistry

Graduate courses are offered which lead to the Master of Science degree in chemistry or provide the cognate field concentration for the Master of Science in Education program in secondary education. A special program leading to the Master of Science degree may be arranged for students who plan to teach in junior colleges.

Students interested in any of these programs should consult the chairman of the Faculty of Chemistry for specific information. Following is a listing of the primary requirements which must be fulfilled in addition to the general requirements specified by the Graduate School:

### *Master of Science Degree*

1. Earned credit in Chemistry 490, 511a, 531, 541, 561 or 562, 575.

2. Research and Thesis, Chemistry 597, 5 to 9 hours.

3. Attendance at seminar (Chemistry 575).

4. A reading knowledge (or one year of undergraduate credit) of a foreign language approved by the student's advisory committee.

5. A final oral examination on the thesis.

6. If a secondary concentration in a field other than chemistry is elected, a minimum of 30 hours of credit must be earned in chemistry.



### *Master of Science in Education Degree*

1. From 16 to 32 hours of graduate credit in chemistry, and a total of at least 64 undergraduate and graduate hours in chemistry.
2. Program of study approved by the Graduate Committee of the Faculty of Chemistry.
3. A research paper on a topic approved by the Graduate Committee.
4. Satisfactory performance on an oral examination over the research paper and appropriate course material.

### **Education**

The Education Division offers graduate programs leading to the Master of Science in Education degree and the Sixth-Year Specialist's Certificate. At both levels, programs are available in counselor education, educational administration and supervision, and secondary education. The programs in elementary education and in special education lead to the master's degree only.

### *Master of Science in Education Degree*

For the Master of Science in Education degree, each student must complete an approved 48-hour program of study, which must include at least 24 hours earned in courses numbered 500. He must maintain a grade-point average on all graduate courses of no less than 4.00 on a 5.00 scale. Each student must also file with the Graduate Office a research paper approved by his adviser. In addition, he must pass a comprehensive oral final examination and fulfill all requirements of the Graduate School.

Each student who expects to work in the elementary or secondary school must meet the requirements for a teacher's certificate appropriate for his area as a prerequisite for completing a master's degree program. Students wishing to concentrate in Counselor Education for future work in business personnel offices or for pastoral counseling must meet the appropriate prerequisites for each of these areas. The student's adviser determines what prerequisites must be met.

Each program includes three areas of study: (1) the general-professional core, (2) the cognate field, and (3) the field of specialized-professional studies.

1. *The general-professional core:* The general-professional core consists of a block of studies that meets the pattern set forth below of 16 hours in general-professional courses for all students majoring in education.

The courses for the core are chosen with the approval of the student's adviser for his field of specialization and to avoid duplication of undergraduate courses. The student takes one course from each of groups *a* and *b* of the general-professional courses listed below. He also takes two courses from groups *c*, *d*, and *e* but the two must not be in the same group. If the student has taken any of the listed general-professional courses which may be out-dated for application to a master's degree program, he may substitute for each such course some other graduate course in education which his adviser approves as a part of his 16 hours of general-professional work.

*a. Measurement and Statistics:* Counselor Education 420, 422, 520, or 522.

*b. Research:* Educational Administration 500 (required by all).

c. *Curriculum*: Educational Administration 560, Elementary Education 561, Secondary Education 550, 562, or Counselor Education 542.

d. *Developmental Psychology and Learning*: Counselor Education 511, 515, 525, 562a, 562b; Special Education 414; or Psychology 407.

e. *Social Foundations*: Educational Administration 431, or 554, 502.

2. *The Cognate Field*: The student takes at least 15 hours in one cognate field or earn 12 to 18 hours in elective courses related to his teaching field, except for the student specializing in secondary education where a concentration consisting of 16 to 32 hours substitutes for the secondary concentration. In appropriate instances, the adviser may substitute needed education courses for some academic courses. This might be done where the student has strength in the latter but is deficient in the general-professional studies in education.

3. *The Specialized-Professional Field*: In addition to the core requirements, the student completes 14 hours or more in a sequence of study within a field of specialization in education, except in secondary education in which 8 to 16 hours are required. Specialties may be selected from the areas of educational administration and supervision, elementary education, counselor education, secondary education, and special education. The adviser plans with the student a balanced program that will build on the student's prior preparation for teaching.

#### EDUCATIONAL ADMINISTRATION AND SUPERVISION

The specialization in educational administration includes the following sequence: Counselor Education 420 or 422, Educational Administration 456, 500, 524, 560, Elementary Education 557, and Secondary Education 564; eight hours of additional required courses may be selected from Educational Administration 420, 502, 520, 554, Elementary Education 561, Secondary Education 508, 550, 562 or Counselor Education 542.

Students specializing in instructional supervision must select work in the following sequence: Counselor Education 420 or 422, Educational Administration 500, 560, Elementary Education 561 or Secondary Education 508, 550, 562, Educational Administration 524, 456, 556, and Counselor Education 515.

Candidates whose background does not include a strong academic concentration are encouraged to pursue a secondary concentration in an academic area. Candidates with strong undergraduate academic concentrations may take work in foundations, and counselor, elementary, or secondary education.

#### ELEMENTARY EDUCATION

Programs in elementary education are developed for the classroom teacher and for those who wish to concentrate in one of the following areas: language arts, reading, social studies, elementary mathematics, and elementary science. Each of these areas includes 16 hours in the general-professional core of courses, a carefully planned sequence of 16 hours in elementary education, and 16 hours of electives. The electives may be used to give breadth to the student's course of study or provide a degree of specialization.

A total of 48 hours is required for these programs.

Students specializing in elementary education select courses from the following: Elementary Education 415, 441, 442, or 541, 437 or 505, 542, 543.



### COUNSELOR EDUCATION

The purpose of the counselor education program is to develop skills and techniques as they relate to the counselor's role. An understanding of human behavior, the helping relationship, counseling skills, and technical competencies are stressed.

Prescribed course sequences and integration of content material are considered essential in program planning. The student's progress is reviewed after completion of the first 24 quarter hours; therefore the following courses must be taken during that period: Counselor Education 420, 422, 542, 412 (Psychology 432 may replace Counselor Education 412). The remainder of the program must include the following in approximately this sequence: 562a or b, 537, 522, 545j and 541. During the first half of the program, an orientation to research techniques is considered essential. Educational Administration 500 or the equivalent research methods course is required. The student's adviser especially should be consulted in this phase of his program.

If a student plans to take a practicum experience as part of his master's program, he should take it at the end of the integrated sequence of courses.

### SECONDARY EDUCATION

A program consisting of a minimum of 48 hours of work (16 hours in the general-professional core of courses, 8 to 16 hours in secondary education, and 16 to 32 hours in one of the undergraduate teaching subjects and/or cognate courses) is arranged jointly by the adviser of secondary education and the adviser of the subject matter area in which the student plans to teach. The student's undergraduate record, experience, and plans are taken into account in determining the number of courses in secondary education and subject matter to be taken. Appropriate elective courses are selected for those who plan to work in junior colleges or other institutions of higher education.

With the approval of his adviser, each student specializing in secondary education must select 8 to 16 hours (usually 8) of work in the following: Secondary Education 407, 505, 564, 570, 575, or 579; Special Education 414; Counselor Education 542, 543, or 562b; Instructional Materials 406, 417, or 546. The student is encouraged to take a special methods course in his teaching field.

### SPECIAL EDUCATION

The program in special education leading to a Master of Science in Education degree is designed to prepare teachers of exceptional children and to enable them to qualify for certification to teach specific types of exceptional children. To be admitted to the degree program, the student must have a valid teaching certificate or he must qualify for one.

Students may specialize in an area of special education including the educable mentally handicapped, the emotionally disturbed, and the gifted. Each of these sequences requires certain background courses, such as child psychology, mental hygiene, and educational measurement. Students specializing in the educable mentally handicapped and the emotionally disturbed may also be required to take selected elementary education courses at the discretion of their advisers.

The program in the educable mentally handicapped prepares experi-

enced educators to teach children in state-approved classes. The core sequence includes, in order, the following special education courses: 414, 428, 410b, 413b, 481b, 420b, and 577.

The program in the emotionally disturbed is designed to prepare teachers of emotionally disturbed children in public schools or in institutions treating such children. The core includes the following sequence of special education courses: 414, 410a, 413a, 481a, 420a, and 577.

Experienced teachers enrolling in the program for the gifted must take the core sequence which includes the following special education courses: 414, 410c, 413c, 481c, 420b, and 577.

All students in these sub-specialties must take a course in research methods and submit a research paper approved by their graduate advisers. They must select electives in consultation with their advisers.

A fourth specialty is the Administration of Special Education. Applicants for this program must have teaching experience in Special Education. Since students in this program will have a wider range of skills and possess diversified backgrounds, broad programs are planned for two major objectives: (1) to give the student an understanding of and experience with several types of exceptional children, especially in sub-areas in which he has not taught, and (2) to develop his administrative competencies.

Local and state resources are used to give the student direct experience with exceptional children. These include the public schools of Madison and St. Clair counties, the Alton State Hospital and State Department of Mental Health; Specialized Services; Easter Seal Society; and the Madison County Health Center. In addition, a Special Education Diagnostic Center located on the campus provides a training resource for students, teachers, and auxiliary special education personnel.

### *The Sixth-Year Specialist's Certificate*

#### COUNSELOR EDUCATION

The Sixth-Year Specialist's Certificate Program requires a minimum of 45 quarter hours of work. The program is individually planned to meet the student's professional objectives. This program includes a minimum of 16 hours of practicum and/or internship. Specific courses and the sequence in which they are to be taken must be approved by the student's advisory committee.

#### EDUCATIONAL ADMINISTRATION AND SUPERVISION

Admission standards for the Sixth-Year Specialist's Certificate Program parallel the admission requirements for the Doctor of Philosophy degree program. Students admitted on a provisional basis must have the consent of the Dean of University Graduate Studies and Research. All candidates must have the master's degree or its equivalent. Prerequisites to this program include the required courses for the Master of Science in Education degree in educational administration.

The program leading to the Sixth-Year Specialist's Certificate Program includes 8 hours of graduate courses in the foundation field, 16 hours in the area of educational administration, 5 hours in a field study, and either 8 hours in an internship or practicum, or additional course work for those with extensive administrative experience. The areas of specialization, the practicum, and the field study are individually planned in terms of the candidate's professional goals. Eight hours of cognate course work is also required. A comprehensive oral or written exam is required.



## SECONDARY EDUCATION

Admission standards for the Sixth-Year Specialist's Certificate Program parallel the admission requirements for the Doctor of Philosophy degree program. All candidates must have the master's degree or its equivalent.

The work leading to the Sixth-Year Specialist's Certificate Program is arranged in terms of the needs and objectives of the student. The program is designed to extend the competence of classroom teachers in the junior and senior high schools and the junior college. Candidates admitted to the program plan with an appointed committee an appropriate sequence of education and cognate courses of at least 45 quarter hours of credit. The candidate completes a field study or a practicum or both at the discretion of his committee. A comprehensive oral or written exam is required.

### English

Graduate courses in English may be taken for work leading to the Master of Arts degree and for the subject-matter concentration in the Master of Science in Education degree program. Inquiries about admission should be sent to the graduate adviser, Faculty of English Language and Literature, Southern Illinois University, Edwardsville, Illinois 62025.

The Master of Arts degree in English permits the student to elect to write a thesis or to take a comprehensive examination. For either program the student must satisfy the following requirements:

1. Complete at least 48 hours of satisfactory course work in English.
2. Take English 500 in the first term it is available.
3. Take one course in English linguistics at the 400 level or take English 501.
4. Present two years of course work at the college level in a modern or a classical foreign language with at least a *C* average, or demonstrate proficiency in a foreign language.

For the thesis option:

1. Submit to the chairman, Faculty of English Language and Literature, an accepted thesis.
2. Pass a one-hour oral examination on the thesis and related areas.

For the examination option:

1. Submit to the chairman, Faculty of English Language and Literature, a clean copy of the research paper best representing his graduate work, such paper to have received a grade of *A* or *B* in an English course at the 400 or 500 level.
2. Pass the master's comprehensive examination on a reading list in English and American Literature and Linguistics.

A program leading to the Master of Arts degree for the junior college English teacher is also offered.

### Foreign Languages

In conjunction with the Education Division, the Humanities Division offers foreign language concentrations (French, Spanish, or German) in the program leading to the Master of Science in Education degree (secondary education). The program is designed primarily for prospective or in-service foreign language teachers in secondary schools who wish to improve their language and professional competence to graduate level standards of excellence.

Applicants for admission to a foreign language concentration must receive the approval of the Foreign Languages Faculty of the Humanities Division in addition to meeting the general requirements for admission to the Graduate School and the requirements of the Education Division for this program.

A foreign language concentration normally involves graduate level work in each of four areas of competence: language skills, language analysis, literature and culture, and professional preparation. Candidates normally take a minimum of four hours in each area with half of the total work on the 500 level.

No specific courses are required of all candidates. The work taken in each area varies according to the candidate's previous academic training, teaching experience, and language proficiency as demonstrated upon entrance into the program. The total minimum hours of work in the concentration is 16; the maximum, 32. An average of 24 hours is required to complete the concentration for those with undergraduate foreign language majors of 27 quarter hours beyond the intermediate college level. Candidates with deficient academic preparation but with demonstrated language proficiency may be admitted to the program but are expected to take closer to the maximum of 32 hours in the concentration. No candidate is considered as accepted in a foreign language concentration until it is established by consultation with the Education Division that his total needs in foreign language hours can be reconciled with his total education needs in the Master of Science in Education (secondary education) program.

To be retained in the foreign languages concentration of the program, candidates must maintain a *B* (4.0) average in the foreign languages work. Graduate work in a foreign language taken at other universities and in NDEA Institutes granting graduate credit is integrated into the concentration within the limits of the regulation of the Graduate School concerning the transfer of graduate credit.

### Geographical Studies

Programs leading to the Master of Arts, Master of Science, and Master of Science in Education degrees are offered. The basic requirements in each of the programs are similar and require: (1) a core program in the major subject area of geography; (2) a competence in a specialized area; and (3) a thesis or its equivalent to demonstrate research ability. Areas of specialization are cartography, cultural, economic, earth science, urban geography, and urban and regional planning. These specialization programs may include course work from related departments. Students not having an undergraduate concentration in geography are required to take undergraduate course work in deficient areas.

The basic core program requires graduate course work in the following areas:

1. Physical or Economic Geography.
2. Quantitative or Field Techniques.
3. Research Techniques.
4. Cartography.
5. Philosophy of Geography.

Sixteen or more quarter hours are required in an area of specialization. Twenty-four quarter hours of geography are required to list geography as a secondary concentration in the Master of Science in Education de-



gree. The Master of Science degree requires 56 hours, two research papers, and competence in quantitative techniques or field methods instead of a foreign language.

The chairman advises all graduate students prior to the appointment of a graduate adviser. A comprehensive preliminary examination is required and used in advising students. An oral defense of both the thesis outline and the completed thesis is required. The thesis outline must be developed with the advice of the thesis chairman and the student's advisory committee. After approval, the thesis title must be filed in the office of the graduate dean.

All general requirements of the Graduate School must be met.

### **Government**

Graduate courses in government may be taken as a major or minor leading to the Master of Arts degree, or as a concentration in government toward the Master of Science in Education degree.

The subject-matter fields in which students concentrate their study are:

1. American Government and Politics.
2. Comparative Politics.
3. International Relations.
4. Political Theory.
5. Public Administration.
6. Public Law.

All candidates for graduate degrees are expected to select one of these areas of concentration as their major field and to demonstrate special competence both in that field and in two other areas of concentration.

Departmental processing of applications for acceptance as a graduate student in government is the joint responsibility of the department's director of graduate studies and its chairman.

The director of graduate studies serves as adviser for all graduate students until such time as an advisory committee is named for the individual student. This should be done by the end of the second quarter in residence.

### *Master of Arts Degree*

Requirements for admission imposed by the department are in addition to those of the Graduate School. The department ordinarily considers accepting as potential candidates for the master's degree only persons who have graduated from an accredited four-year college or university with a 3.70 overall grade-point average and 4.0 grade-point average in their major, and who have completed a minimum of 21 quarter or 14 semester hours in the field of government or political science. The candidate must present course work or other evidence of competence in three fields of political science. Scores from the Graduate Record Examination—both the aptitude test and the advanced test in government—must be submitted. Persons who do not meet these minimal requirements or their equivalent can be considered for acceptance only on a petition to the department's director of graduate studies and chairman which, if granted, indicate the deficiencies to be made up by work that will not be counted toward the Master of Arts degree.

A minimum of 48 quarter hours of credit, no more than 9 of which may be for the thesis, constitutes the basic course requirements for the Master

of Arts degree. At least 24 of these hours must be in courses at the 500 level. The course work must be so planned as to include at least 9 hours of work in each of two areas other than the one in which the thesis is written.

A student who completes only the minimum of 48 hours of course work may devote no more than 9 of those hours to courses outside the department unless the work is in a cognate field which has been approved as a replacement for one of the areas of concentration within the department. In the latter event, as many as 16 hours in the outside field may be counted within the 48-hour minimum, and a minimum of 15 hours in the cognate field are required.

Each candidate for a Master of Arts degree must include in his studies the departmental course in the scope and method of political science (Government 499).

A student must maintain an overall 4.00 grade-point average in order to be eligible for the Master of Arts degree, and no more than 9 hours of work with a grade of C may be counted toward the Master of Arts. A student whose work at any time falls significantly below this average may be dropped from the graduate program after consultation between his adviser and the director of graduate studies.

Proficiency in one modern foreign language is one of the University's requirements for the Master of Arts degree. Foreign language proficiency is demonstrated by successful completion of an examination administered by the Foreign Language department which is designed to test reading ability equal to that expected of students who have completed two years of college-level training in the foreign language. Proficiency in a foreign language must be certified to the Graduate School at least three months prior to graduation.

A thesis of the usual form and scope is required for the Master of Arts degree. Additional course work is not accepted in lieu of a thesis.

The final oral examination covers the thesis and the major area in which it was written. It also tests the candidate's competence in his two minor areas.

## History

Programs leading to the Master of Arts degree in history and to a teaching concentration in history for the Master of Science degree in secondary education are offered by the Faculty of Historical Studies. The Master of Arts degree is recommended for students who plan to continue graduate studies at the doctoral level, or who desire to teach in junior colleges.

Each student will be individually advised in his program, and may elect courses in Ancient History, Medieval and Modern European History; Latin American and United States History; and other specialized fields.

In addition to the general requirements of the Graduate School, the following specific requirements apply for the degrees indicated:

### *Master of Arts Degree*

1. At least 32 of the required 48 hours of graduate credit must be in history. At least half of the history hours must be completed in courses at the 500 level.



2. The combined total of graduate and undergraduate hours in history must be no less than 64.
3. A thesis must be presented for which 8 quarter hours of credit is given at the 500 level.
4. A reading examination in a modern foreign language must be passed.
5. A final oral examination covering the thesis and other appropriate topics must be passed.

*Master of Science in Education Degree<sup>1</sup> (Secondary Concentration in History)*

1. At least 16 and normally 24 hours of graduate credit in history are required. Half of the hours in history must be at the 500 level.
2. The combined total of graduate and undergraduate hours in history must be no less than 64.
3. The program of courses in history must be approved by the graduate history adviser to provide adequate balance in areas of study.
4. A research paper of acceptable quality must be submitted.
5. A final oral examination covering the program of graduate study must be passed.

### Mathematical Sciences

Graduate work in the mathematical sciences may lead to the Master of Arts or the Master of Science degree. Courses are offered for students interested in applied mathematics, computer science, pure mathematics, or probability and statistics. Students may prepare for positions as junior college teachers, for positions in industry or government, or for advanced study in mathematics leading to the Ph.D. degree.

A program given jointly with the Education Division offers courses leading to the Master of Science in Education degree with a concentration in mathematics.

In addition to the general requirements of the Graduate School, the following specific requirements apply for the degrees indicated:

*Master of Arts Degree*

1. At least 40 of the required 48 hours of graduate credit must be in mathematics. Course work must include at least three of the following sequences: Mathematics 501, 520, 530, 551, 555.
2. A thesis which carries from 5 to 9 hours credit.
3. Reading ability in mathematical literature in French, German, or Russian.
4. Satisfactory performance on written examinations over three areas of mathematics.
5. Satisfactory performance on an oral examination over the thesis and other topics that are deemed appropriate by the examining committee.

*Master of Science Degree*

1. At least 32 of the required 48 hours of graduate credit must be in mathematics. Course work must include two of the following sequences: Mathematics 501, 505, 520, 530, 551, 555, 575, 580.

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<sup>1</sup> Master of Science degree students are advised in both the Social Sciences and Education Divisions, and their programs require the approval of two advisers. Candidates for this degree should have a strong undergraduate background in history in order to qualify for graduate work.

2. A thesis or a research paper.
3. Satisfactory performance on written examinations over three areas, two of which must be mathematical.
4. Satisfactory performance on an oral examination over the research paper and other topics that are deemed appropriate by the examining committee.

*Master of Science in Education Degree (Concentration in Mathematics)*

1. From 16 to 32 hours of graduate credit in mathematics with at least 8 hours in mathematics at the 500 level. Specific courses are chosen to fit the background and needs of individual students.
2. A research paper.
3. Satisfactory performance on an oral examination over the research paper and course material.

### Music Education

In addition to the general requirements of the Graduate School, requirements for the Master of Music Education degree with a concentration in music education are:

1. Entrance examinations in Music Theory, Music History-Literature, and in Music Education must be passed before a student is permitted to enroll in 500-level courses in those areas.

Students planning to do a recital in lieu of a thesis must pass a performance audition prior to enrolling in applied study. Twelve hours' credit in the applied area are required.

2. A minimum of 18 hours in music education courses. Six hours of professional education courses may be substituted, upon approval of the adviser.

3. Specific courses required: Music 501-3, 502a-3, and 599-6.

4. Elective courses in music to make a total of 48 hours for the degree. Cognate courses, up to a total of 6 quarter hours' credit, may be used, upon approval of the adviser.

5. Twenty-four or more hours must be in courses at the 500 level.

6. A thesis is normally expected. However, a student who desires to perform a recital and submit a supporting paper for the recital, in lieu of the thesis, may do so upon approval of his adviser and auditioning committee.

### Physics

The Faculty of Physics offers a program of study leading to the Master of Science degree. Two courses of study are available: the Master of Science degree in Physics and the Master of Science in Education degree with a concentration in Physics for students planning to teach at pre-college levels. Students planning to teach at the junior college level are advised to enter the Master of Science in Physics program since junior colleges are generally requiring a Master of Science degree in the subject matter area. Students who plan to earn either degree in physics are governed by the regulations in this catalog with respect to scholastic attainment, hours of credit, residence, foreign language competence, and time limitation for completion of the program.



### *Master of Science Degree*

In addition to the general rules, the Faculty of Physics specifies requirements which are outlined below.

1. *Admission.* A student with a baccalaureate degree who satisfies the general requirements for admission to graduate work may qualify for this program provided he has a 4.0 average in an undergraduate concentration in physics or has permission of the physics graduate faculty. A student with an undergraduate concentration in a field other than physics may enter this program if he has completed 20 hours of physics at the junior-senior level with a 4.0 average or has permission of the physics graduate faculty.

2. *Program of Study.* In order to receive the degree, a candidate must satisfy the general requirements of the graduate school and must earn at least 30 hours of graduate credit in physics with an average grade of 4.0 or higher. The remaining 18 hours must be in electives approved by the student's advisory committee. These are generally in mathematics, engineering, or chemistry. However, students interested in junior college teaching might well benefit from courses such as Education 565-4 or Science and Technology 415-1 to 3. This program of study must include the following physics courses: 510a, 510b, 530a, 530b, 575, and 590.

The remaining 12 hours must be selected from 400-500 level physics courses. Before a student is accepted as a candidate for this degree, his proposed program of study must be approved by his Advisory Committee.

3. *Advisory Committee.* Each candidate's program is supervised by a committee of the Physics Graduate Faculty composed of a chairman and at least two other members. Initially the chairman of the committee is the Graduate Adviser who appoints the other members of the committee.

When the student begins his research work, the student's research supervisor becomes the chairman of the committee.

If the student elects a secondary concentration, a graduate faculty member from that discipline should be a member of the committee.

4. *Examination.* In order to qualify for the proposed degree and to begin research work for a thesis, the candidate must pass a written examination under the supervision of his Advisory Committee. The Graduate Adviser solicits from the Physics Graduate Faculty appropriate questions from which the Advisory Committee chooses the questions for the examination. The Graduate Adviser is responsible for administering the examination, which is graded by the committee. A unanimous vote is required for a passing grade.

The examination is given in two parts. Part I covers topics from the fields of classical mechanics and electromagnetic theory; and Part II from the fields of atomic, nuclear, and solid state physics, kinetic theory, thermodynamics, statistical mechanics, optics, and quantum mechanics.

5. *Thesis.* Each candidate must submit to the Graduate School and to the Science and Technology Division a thesis based on his work in an approved physics research program. After a thesis, acceptable to this Advisory Committee, is submitted, the candidate must pass an oral examination in order to be certified for the degree.

### *Master of Science in Education Degree*

In addition to the general rules, the Faculty of Physics specifies the following requirements.

1. *Admission.* A student who satisfies the requirements for admission to the Master of Science program (Section B. 1) and has been approved for work in secondary education by the Education Division may qualify for a program leading to the Master of Science in Education degree with work in physics.

2. *Program of Study.* In order to receive the proposed degree, a candidate in addition to the general requirements and the requirements of the Education Division, must earn at least 16 hours of graduate credit in physics and may earn as many as 32 hours of graduate credit in physics toward the degree. The student must have at least a *B* (4.0) average in all graduate work in physics as well as a 4.0 average in all graduate work; at least 6 hours of physics courses must be at the 500 level.

Before a student is accepted as a candidate for this degree, an Advisory Committee must be formed for this student consisting of at least one member from the Physics Graduate Faculty.

3. *Research Paper.* A research paper or thesis approved by the student's Advisory Committee is required of all candidates for this degree.

4. *Examination.* As required by the general rules of the graduate school, a candidate for this degree is required to pass a comprehensive oral examination of his graduate work under the supervision of his Advisory Committee.

The research activity of the Faculty of Physics is concentrated in two main areas, solid state physics and plasma physics. The Solid State Laboratory consists of a General Electric XRD6 Single Crystal Diffractometer, a Varian 12" Magnet system with Fielddial Mark II control, fast pulse instrumentation, microwave equipment, and sample preparation equipment. The Plasma Physics Laboratory possesses a 132 KVA Plasma Flux Magnet System, a magnetic pinch device, and work is progressing on a Cesium plasma Q-machine. A fast flow microwave discharge system is being constructed to study molecule-atom energy transfer. Optical, electrical, and microwave diagnostics are also available. There is a well-equipped machine shop, an electronics shop, and glass-blowing facilities. The Science Laboratories possess GE-265 time-sharing computer terminals, and IBM 1401 and 1620 computers are housed in the adjacent building. Access to an IBM 7040 is also available.

Graduate students in physics are eligible for fellowships awarded by the Graduate School. A typical stipend is \$2400 for the academic year plus tuition. Teaching assistantships of up to \$2700 plus tuition for the academic year are available from the Faculty of Physics. Teaching assistants are assigned teaching duties requiring a total of 15 hours per week during the academic year. This typically involves about 6 contact hours per week. Additional financial support is available during the summer months. Several research assistantships are also available for qualified students. Applications for assistantships should be received by March 1.

## Psychology

A Master of Arts and a Master of Science degree are offered in psychology. A minimum of 60 quarter hours of acceptable graduate credit is required for either degree. A candidate for the Master of Arts degree is also expected to demonstrate reading proficiency in a modern foreign language. Each candidate must submit a thesis as evidence of his knowledge of formal research techniques.



Because of the general flexibility of the program, several options are available for students seeking preparation for entry into such professional areas as school psychology, teaching, and industrial psychology or into advanced graduate programs in psychology.

Separate application forms for both the psychology faculty and the Graduate School are required; both the faculty's admissions committee and the Graduate School must grant their approval.

While an undergraduate concentration in psychology is desirable, capable students from other academic concentrations interested in psychology may enter the graduate program provided they have had at least *one* course in each of the following: applied psychology, statistical methods, and experimental psychology. The prospective enrollee must submit results of the Miller Analogies and the Graduate Record Examination and must show at least a *B* average in his major undergraduate field.

A tentative plan of study must be approved by the psychology adviser. Course work includes a core program required of all candidates. The core consists of 501-12 Proseminar in General Psychology, 520-4 Research Design and Inference I, and 599-6 to 9 Thesis. In addition, 521-4 and 522-4 Research Design and Inference II and III or 593-8 Practicum in Psychology is required. The remaining 27-30 hours of the program are electives which must include a sequence of three or more courses in at least one area of psychology (child, learning and motivation, perception, personality, social) to assure some work in depth in a chosen field.

A variety of research and practicum experience is important. All students are expected to participate in research or practicum experiences.

### Sociology

The Sociology Faculty offers a program of study leading to the Master of Arts and the Master of Science degrees. In addition to the general regulations of the Graduate School, the following conditions pertain.

1. Course work must include 20 quarter hours distributed among the following areas (1) Methodology, (2) Statistics, (3) Methods of Field Research, (4) Sociological Theory, and (5) Social Psychology.

Of the 48 hours required for graduation, a student may earn a maximum of 8 in independent reading and thesis research; however, approval of the candidate's thesis must be obtained before credits for these are approved.

2. A student must pass a comprehensive written examination in which he demonstrates general knowledge of sociology. This examination is given in three parts of two hours each usually in the spring.

3. Candidates for the Master of Arts degree must submit a thesis based on original research and pass an oral examination in defense of the thesis.

4. Reading knowledge of one foreign language must be demonstrated by passing the appropriate foreign language examination as provided by the Foreign Languages Faculty.

The requirements for the Master of Science degree are the same as for the Master of Arts with the following exceptions: (1) a research paper may be offered in lieu of a thesis, and (2) reading knowledge of a foreign language is not required.

Applicants should apply to the chairman of the Faculty. Detailed statements of departmental requirements for master's degrees are available upon request.

# 3 / Course Descriptions

HERE ARE DESCRIBED all of the courses offered by the University at the Edwardsville Campus for graduate credit. Courses are listed numerically within each subject-matter area. Areas are listed below in the order of their appearance on the following pages.

Accounting	Higher Education
Anthropology	History
Art	Instructional Materials
Biology	Management
Business Administration	Management Operating Systems
Business Education	Marketing
Chemistry	Mathematics
Counselor Education	Music
Economics	Personnel and Industrial Relations
Educational Administration and Supervision	Philosophy
Elementary Education	Physical Education
Engineering	Physics
English	Production
Finance	Psychology
Foreign Languages	Quantitative Methods
General Foreign Language	Rehabilitation
French	Science and Technology
German	Secondary Education
Spanish	Social Welfare
Romance Philology	Sociology
Geography	Special Education
Government	Speech
Health Education	Speech Pathology and Audiology
	Theater

## Explanation of Entries

The first entry for each course is a three-digit numeral which serves to identify the course. Courses numbered 400–499 are open to both seniors and graduate students. Courses numbered above 499 are for graduate students only.

Following the course identification number is another number, which indicates the maximum credit allowed for the course. The maximum may vary, and specific credit hours may be assigned for each quarter a course is given.

After each course description are listed the prerequisites, if any, which must be satisfied by the student before the student is permitted to enroll in that particular course.

To learn when a course is offered, the student should consult the Schedule of Classes which may be obtained from Central Publications, Southern Illinois University, Edwardsville, Illinois 62025. When requesting a schedule, please specify the quarter desired (fall, winter, spring, or summer).



### Accounting

**442-4 Advanced Cost Accounting.** Managerial control and profit planning through capital budgeting, inventory planning, subjective probabilities, statistical methods, and operations research; direct and relevant costing; nonmanufacturing costs; differential and comparative cost analysis. Prerequisite: 341.

**453-4 Advanced Accounting.** Advanced study of accounting principles and procedures relating to specialized topics, including partnership equity, installment and consignment sales, insurance, compound interest, and preparation and use of consolidated statements. Prerequisite: 351b.

**456-4 Auditing.** Objectives, standards, and procedures involved in examining and reporting on financial statements of business organizations. Prerequisites: 341, 351b.

**458-4 Accounting Systems.** Problems in accounting systems design and installation. Examination of existing systems and practice in system design and reports. Prerequisites: 331, 341, 351b.

**461-4 Advanced C.P.A. Problems.** A course using problems from the American Institute of Certified Public Accountants' examinations given in recent years and supplementary problems from selected sources. Prerequisites: 341, 351b.

**530-4 Conceptual Framework of Accounting.** Accounting records of income measurement, price level, principles of financial statement analysis, and fund flow statements. Restricted to Master of Business Administration students.

**533-4 Managerial Accounting.** Consideration of programs and techniques of internal control and reporting for management, cost concepts and applications, variable costing, cost-volume-profit relationships, budgeting concepts, and complex problems for managerial decision. Prerequisite: 530.

**538-4 Seminar in Accounting.** Comprehensive study and research in selected areas of accounting related to students' special interests. Prerequisite: 533.

### Anthropology

**400-4 Man and Culture.** The nature of culture and cultural process. Relationships of culture and man as an individual and as a group. Emphasis on "the anthropological point of view."

**404-4 Primitive Art and Technology.** The development of man as an art-loving and a tool-using being. Artistic and technological tradition of non-Western peoples, past and present.

**405-4 Social Anthropology.** A Comparative approach to the organizational features of human groups. Functional aspects and distributions of kinship, political, religious, and economic systems.

**408-4 History of Anthropological Thought.** The growth of anthropology to about 1860, followed by a more intensive survey of the concepts and ideas of anthropology during the past hundred years.

**409-4 Anthropology and Modern Life.** The applications of anthropological principles to the solution of problems of the modern world. Contributions of anthropology to the work of the educator, social worker, administrator, business man, government official, and other specialists dealing with man in Western and non-Western cultures.

**416-4 Culture Change.** Examination of long and short range culture change, acculturation process and innovation, theory and method of study of culture change.

**430-4 Archaeology of North America.** An introduction to the methods of archaeology and a survey of prehistoric Indian cultures north of Mexico, with particular emphasis upon the cultures of the Mississippi Valley.

**483-3 to 18 Individual Study in Anthropology.** Guided research upon anthropological problems. Students should consult chairman before enrolling.

**507-9 (3,3,3) Pro-seminar in Social Anthropology.**

**508-8 (4,4) Pro-Seminar in Cultural Anthropology.** (a) Theory and method of anthropology. Cultural variables and human behavior, formulation of problems and their research according to preferred anthropological techniques, case studies in theory and method. (b) Acculturation and applied anthropology. Variables influencing culture change, planning and culture change, case studies in culture change.

## Art

**Art Education:** 408, 460, 466, 560, 566.

**Art History:** 483, 571.

**Studio:** 401, 405, 406, 410, 416, 420, 426, 441, 501, 502, 511, 520.

**401-2 to 12 Research in Painting.**

**405-2 to 12 Studio in Sculpture.**

**406-2 to 12 Studio in Painting.**

**408-4 Art Education for Elementary Teachers II.**

**410-2 to 12 Research in Prints.**

**416-2 to 12 Studio in Prints.**

**420-2 to 12 Research in Pottery.**

**426-2 to 12 Studio in Pottery.**

**441-2 to 6 Studio in Drawing.**

**460-2 to 12 Research in Art Education.**

**466-2 to 12 Studio in Art Education.**

**483-3 to 12 Research in Art History.** Individual research in the painting, sculpture, architecture, and related arts of the various periods.

**501-2 to 12 Seminar in Painting.**

**502-2 to 12 Seminar in Sculpture.**

**511-2 to 12 Seminar in Prints.**

**520-2 to 12 Seminar in Pottery.**

**560-2 to 12 Seminar in Art Education.**

**566-2 to 12 Research in Art Education.**

**571-2 to 5 Readings in Art History.**

**599-5 to 9 Thesis.**

## Biology

**410-4 Advanced Genetics.** A study of quantitative inheritance, chromosomal evolution and organization, the regulation of gene action, and radiation genetics. Three lectures, one laboratory per week. Prerequisites: 303a, GSD 114d.

**415-4 Experimental Embryology.** A survey of the literature from the beginning of experimental embryology; laboratory includes classical and modern techniques. Two lectures, two laboratories per week. Limited to ten students. Prerequisite: 301c and organic chemistry (or concurrent registration).

**420-4 Plant Synecology.** The structure, development, and causative factors in the distribution of plant communities. Field techniques for quantitative measurements and interpretations of successional dynamics are stressed. Three lectures, one laboratory per week. Saturday field trips required. Prerequisite: 303c.

**423-4 Principles of Parasitism.** Principles dealing with parasitic relationships. Includes study of types of association, morphologic, and physiologic adaptations of parasites, defensive mechanisms, immunity and specificity. Selected examples from plants and animals are used to illustrate the general principles and life histories. Two lectures, two laboratories per week. Prerequisite: 302 a,b,c.

**435-4 Ethology.** A survey of animal interactions and the response of animals to environmental stimuli. Three lectures, one laboratory per week. Prerequisite: 302a.

**441-3 Mammalian Physiology.** Nervous and endocrine coordinating processes, sensory function, circulation, respiration, alimentation, and regulation of body fluids, with special reference to man. Three lecture hours per week. No graduate credit. Prerequisites: organic chemistry and 302d or GSA 310.

**442-1 Mammalian Physiology Laboratory.** Selected experiments with mammals including man. One three-hour laboratory per week. No graduate credit. Prerequisite: concurrent enrollment in 441.

**444-4 Integrative Physiology.** Mechanisms of response and integration with emphasis on the role of the nervous system. Three lectures, one laboratory per week. Prerequisites: 301a, 302a, and organic chemistry (or concurrent registration).

**447-4 Topics in Plant Physiology.** Photosynthesis, mineral nutrition of plants,



water regime, growth and movement of plants. Two lectures, two laboratories per week. Prerequisites: 302c, Chemistry 111a,b,c.

**455-4 Plant Anatomy.** Developmental and comparative studies of seed plants including structure of vegetative and reproductive parts and embryology. Three lectures, one laboratory per week. Prerequisite: 302c.

**458-5 Functional Morphology of Vertebrates.** The phylogenetic approach to comparative form, function, and development of vertebrate organisms. Two lectures, three laboratories per week. Prerequisite: 302a.

**470-4 Field Botany.** Taxonomy, natural history, and distribution of local plants. Two lectures, two laboratories per week. Cost of field trips may be \$10-\$25 per student. Prerequisite: 302c.

**480-4 Field Zoology.** Taxonomy, natural history, and distribution of local animals. Two lectures, two laboratories per week. Cost of field trips may be \$10-\$25 per student. Prerequisite: 302a.

**485-4 Ichthyology.** Relationships, ecology, behavior, physiology, and anatomy of fishes. Field study of local fauna is stressed. Two lectures, two laboratories per week. Saturday field trips required. Prerequisite: 302a or consent of instructor.

**486-4 Herpetology.** A study of amphibians and reptiles, their evolution, relationships, morphology, and behavior. Two lectures, two laboratories per week. Saturday field trips required. Prerequisite: 302a,c or consent of instructor.

**488-4 Mammalogy.** Taxonomy, natural history, and evolution of animals. Two lectures, two laboratories per week. Prerequisite: 302a.

**493-2 to 8 Research in Biology.** No credit toward a secondary concentration in biology. Prerequisites: senior standing, consent of department.

**497-2 to 8 Biology Field Studies.** A trip of four to eight weeks to acquaint students with animals or plants in various environments and/or with methods of field study, collection, and preservation. Arrangements made in advance of term; travel costs borne by student. No credit toward a secondary concentration in biology. Prerequisite: consent of faculty.

**501-2 Research Orientation.** An intensive study of several widely divergent problems in biology with special reference to the development of concepts and investigative techniques.

**504-9 (3,3,3) Instructional Innovation in Secondary School Biology.** A laboratory-oriented workshop of group participation in varied approaches to experimentation and problem solving in the biological sciences.

**506-4 Cellular Regulation.** The effects of the physical and chemical environment on cellular processes and activities (e.g. on the cell growth and division, metabolism, ultrastructure, and biochemistry.) The molecular bases for the responses for the cell to changes in the environment are stressed. Four hours lecture per week. A term paper is required. Prerequisites: 301b, two quarters of organic chemistry.

**511-4 Population Genetics.** Genetic structure of populations, factors causing changes, and principles governing rate and direction of change. Prerequisite: 303a.

**512-4 Cytogenetics.** Correlation of cytology with genetics. Cell mechanics and nuclear division. Mitosis, meiosis, crossing over and mapping of chromosomes. Mutation, mitotic agents, effect of irradiation, polyploidy, structural aberrations, polytene chromosomes. Synthesis of new species, comparative karyomorphology. Evolution and cytogenetics. Prerequisite: 303a.

**521-4 Limnology.** Principles exemplified by the lakes and streams of southern Illinois. Cost of field trips may be \$10-\$25 per student.

**524-3 Biogeography.** Concepts and principles relating to patterns of plant and animal distribution on a continental and world-wide basis. Prerequisite: 303c.

**545-3 Physiology of Sense Organs.** Structure and function of selected sense organs, including physiochemical processes in transducer action by receptors and handling of sensory messages. Prerequisite: 303d.

**547-3 Mineral Nutrition of Plants.** Mineral absorption, accumulation, and requirements of plants with special reference to the physical chemistry of cellular membranes. Prerequisite: 447.

**553-4 Morphology of the Spermatophytes.** A seminar on the current theories concerning the origin, evolution, and trends of specialization in seed plants. Prerequisite: 455.

**580-4 Advanced Invertebrates.** The nature and life of invertebrate animals with emphasis on comparative form, function, behavior, and occurrence. Prerequisite: 302a.



**581-4 Helminthology.** Identification, morphology, physiology, and life histories of parasitic worms. Prerequisite: 423.

**590-3 (1,1,1) Graduate Biology Seminar.** Lectures presented by faculty, visiting investigators, and students. Students present one seminar per quarter. Continuous attendance required.

**591-1 to 4 Readings in Biology.** Supervised readings in specialized areas. No credit toward a secondary concentration in biology. Prerequisite: consent of instructor.

**593-1 to 4 Special Problems in Biology.** Supervised investigation. Prerequisite: consent of instructor.

**599-2 to 9 Research and Thesis.**

## Business Administration

**440-4 Legal Environment of Business.** The varied facets of the external and internal legal environments within which business firms operate. Further development of analytical skills is attained through the use of cases and readings which describe and analyze the legal framework supporting, facilitating, and guiding everyday business decisions. Common law, statutory law, and administrative law as they affect the business environment.

**441-4 Business Policy.** Development of a top-management view leading to the formulation of general policies to be followed by the organization. Determination of objectives, the development of plans for their achievement, organizing administrative personnel to carry them out, implementation of programs, measurement of results, and the reappraisal of objectives, plans, and action-patterns in the light of evolving situations. Prerequisites: 341, 440.

**511-4 Accounting Theory.** Contemporary advanced accounting theory, including controversial issues with emphasis on net income determination and asset valuation; particular attention given to current publications of the professional and governmental agencies.

**526-4 Managerial Economics.** A course in the economics of the firm. Emphasizes demand, costs, prices, and profits in developing a conceptual business-decision framework.

**539-4 Seminar in Finance.** Current issues and practices in business finance. Student selects a problem for intensive exploration and reports his findings to the class.

**540-4 Concepts of Managerial Performance.** Emphasizes the role of management in achieving efficient work organizations. Reviews the various approaches to management as a foundation of realistic understanding of the broad range of problems confronting managers. Case problems supplement text materials. Restricted to Master of Business Administration students.

**541-4 Business and Its Legal Environment.** The legal framework within which business operates. Social, political, and economic environmental influences brought to bear on a firm by law. Specific relationships of this government to business, resulting from the anti-trust laws, the regulatory commissions, and government ownership of productive facilities. Restricted to Master of Business Administration students.

**542-4 History and Theory of Management.** An analytical study of the background and growth of management theory from its early beginnings to the present. Emphasis largely on the theory and practice of business management.

**543-4 The Administrator.** A focus upon the changing issues faced by managers in their efforts to achieve better management of human resources. The point of view is that of the line manager rather than that of a personnel-staff specialist. The case method facilitates the search for sensitive understanding and operational guidelines; the goal is to develop leadership patterns conducive to a satisfying, as well as an efficient, organizational entity. Prerequisite: 540.

**544-4 The Methodology of Business Research.** Basic concepts and techniques appropriate to research for business; research as a basis for creative decision-making in diverse business situations. Formulation of hypotheses; development of appropriate models and methodology for testing of hypotheses; presentation of research results; evaluation of the research results of others. Students are assisted in designing individual and group research projects having relevance for later seminars. Should be taken at the beginning of the second year.



**545-4 The Social Framework of Business.** Critical examination of the role of business in modern society. Emphasis on the large corporation, the responsibility of its management, the relationship of the corporation to the individual, the professional role of the manager, and the efficient management of the firm's resources. Prerequisite: 541.

**548-4 Seminar in Managerial Performance.** Depth study of a limited range of current problems and developments in management development, compensation, management by objectives, task-team leadership, and sensitivity training. Emphasis on the planning and leadership roles of management. Selection of topics is guided by the interests of the students and instructor. Prerequisite: 543.

**549-4 Corporate Policy Formulation and Administration.** A comprehensive, integrative course, focusing on the development and implementation of corporate strategy. Students analyze and diagnose complex business situations, bringing together their prior work in all areas of graduate study. Written analyses of cases and a four-hour final examination provide opportunity for appraisal of student's overall comprehension. Prerequisite: final quarter standing.

**559-4 Seminar in Marketing.** Students select and defend, on an individual basis, problems in marketing theory, research, and policy. May be repeated once with consent of department.

### Business Education

**403-3 Teaching Typewriting.** The programming of activities in typewriting training, methods of instruction, skill-building principles and techniques, selection and preparation of practice materials, standards of achievement, and evaluation of pupil performance. Prerequisite: 304 or equivalent.

**404-3 Teaching Shorthand and Transcription.** The programming of activities in shorthand and transcription training, methods of instruction, skill-building principles and techniques, selection and preparation of practice and homework materials, standards of achievement, and evaluation of pupil performance. Prerequisite: 324a or equivalent.

**405-4 Teaching Basic Business Subjects.** Instructional methods and materials for, and the evaluation of pupil progress in, such basic business subjects as general business, consumer education, economic geography, business law.

**406-4 Teaching Office Practice.** Instructional methods and materials for, and the evaluation of pupil performance in office practice.

**408-3 Teaching Data Processing and Bookkeeping.** Instructional methods and materials for, and the evaluation of pupil progress in data processing and bookkeeping.

**414-6 (3,3) Organization and Administration of Cooperative Vocational Business Education.** (a) Philosophy and objectives of cooperative vocational programs, methods of selecting students and work stations, placing and supervising students on part-time jobs. (b) Preparation of instructional materials, job analysis, conducting related information classes, evaluating workers and work stations, advisory committees, public relations aspects of cooperative programs.

**415-6 Supervised Business Experience and Related Study.** Designed to prepare teachers and coordinators of in-school and cooperative vocational business education programs in accordance with the requirements of the Illinois State Plan for the Administration of Vocational Education. First week (15 hours) devoted to classroom study of the principles and problems of coordinating in-school and cooperative vocational business education programs; next five weeks (200 hours) devoted to supervised occupational experience; seventh week (15 hours) devoted to classroom analysis and evaluation of on-the-job experiences of the members of the class in relation to their future work as coordinators and vocational teachers. Each student applies for and obtains his own position with the assistance and approval of the instructor. While employed, each student looks for and analyzes relationships between his work experiences and the in-school or cooperative work experience program he will later conduct.

**417-4 Application and Fundamentals of Data Processing in Business Education.** Acquaints business teachers with data processing applications in high school business classes. Emphasis on vocabulary development, unit record equipment, concepts of programming, and fundamentals of computer applications applicable to high school students. Approximately one-third of course is



spent in machine operation. Prerequisite: Management Operating Systems 280.

**426-4 Office Management.** The principles of management as applied to office problems. Emphasis on the role of the office in business management; office organization; physical facilities of the office; office services, procedures, standards, and controls; records management.

**427-4 Records Administration.** The requisites for records administration. The value of files, their creation, control, retention, and disposition. Applications to such records as medical, legal, educational.

**428-4 Systems and Procedures.** A problems approach to the office systems-procedures function in the modern business firm; seminar and laboratory work on improvement of systems and procedures, administrative information and paperwork engineering; theory of office-systems design; systems administration and work simplification. Prerequisite: 426 or consent of instructor.

**500-4 Principles and Problems of Business Education.** A study of the fundamentals of business education; its relation to business, to general and vocational education, and to guidance programs; its history, current status, and trends; special emphasis on objectives and curriculum problems.

**502-4 Research in Business Education.** A study of research findings and techniques as exhibited in representative investigations in business education. Emphasis on reading and interpreting research, using research findings in solving instructional problems, and uncovering potential topics for future research.

**503-4 Tests and Measurements in Business Education.** The selection, construction, administration, and interpretation of tests and test scores in business education subjects. Principal emphasis on teacher-made tests, especially of the performance type, with secondary attention to published tests in the field.

**505-2 to 16 Workshop in Business Education.** Major issues in business teacher education. Ordinarily offered during one or two weeks of the summer session.

**507-4 Teaching Data Processing.** A consideration of problems inherent in the teaching of data processing in secondary and post-secondary schools. Evaluation of curricula, objectives, course content, evaluation, and teaching materials. Prerequisite: 417.

**508-4 Administration and Supervision in Business Education.** History and philosophy of administration and supervision in Business Education with consideration of problems arising at local, state, and national levels; and at secondary, college, and university levels. Supervisory problems include curriculum construction and evaluation, classroom supervision, promotional policies, selection of textbooks, purchase and maintenance of equipment, physical arrangements, and other areas according to need of students.

**509-4 Improvement of Instruction in General (Basic) Business Subjects.** Designed for the experienced high school teacher who is interested in the study of curriculum and teaching problems in basic business subjects. Includes teaching procedures, review of materials, formulation of tests, and evaluation. The organization of teaching units and projects is emphasized.

**510-4 Improvement of Instruction in Secretarial Subjects.** Designed for the experienced high school teacher who is interested in the study of curriculum and teaching problems in secretarial subjects. Includes teaching procedures, review of materials, formulation of tests, and evaluation.

**590-2 to 5 Readings in Business Education.** Supervised readings in selected subjects. Prerequisite: consent of instructor.

**591-2 to 5 Individual Research in Business Education.** Selection and investigation of a problem; use of relevant sources and techniques; collection, evaluation, and interpretation of data; and the writing of a report on the investigation. Prerequisite: consent of instructor.

**599-1 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree.

## Chemistry

**411-4 Intermediate Inorganic Chemistry.** Modern inorganic chemistry involving atomic structure, chemical bonds, complexes, and chelate structures; chemistry of familiar and less familiar elements. Four lecture hours per week. Prerequisite: 461b.

**412-3 Inorganic Preparations.** A study of several important inorganic syntheses. One lecture, six laboratory hours per week. Prerequisites: 235; 305b or 341c.



**432-8 (4,4) Instrumental Analytical Measurements.** Theory and practice of instrumental analytical measurements, including spectrophotometric, electro-analytical, and chromatographic methods. Two lecture, six laboratory hours per week. May be taken in either sequence. Corequisite: 461b.

**433-3 Intermediate Quantitative Analysis.** A study of the analysis of complex materials, with emphasis on separations, functional group analysis, and instrumental applications. Two lecture, three laboratory hours per week. Prerequisites: 432a or b, 461c.

**444-3 Organic Reactions.** A review of fundamental principles and an introduction to advanced topics. Three lecture hours per week. Prerequisite: 341c.

**446-4 Qualitative Organic Analysis.** A systematic study of the separation and identification of organic compounds. Two lecture, six laboratory hours per week. Prerequisite: 305b or 341c, and 345b.

**447-3 Quantitative Organic Chemistry.** The determination of functional groups and elements commonly found in organic compounds by selected methods of analysis; illustration of general methods of procedure in the field of quantitative organic chemistry. One lecture, six laboratory hours per week.

**451-6 (3,3) Biochemistry.** (a) Carbohydrates, lipids, amino acids and proteins, nucleic acids and nucleo-proteins, enzymes. (b) Vitamins and coenzymes, metabolism of carbohydrates, lipids, amino acids, and proteins, energy metabolism, hormones. Must be taken in a,b sequence. Prerequisite: 235, 305b, or 341c.

**455-2 (1,1) Experimental Methods in Biochemistry.** (a) Some modern separation techniques. (b) Biochemical preparations, syntheses and methods of identification. Prerequisite: concurrent enrollment in 451a.

**460-5 Theoretical Chemistry.** Traditional aspects of physical chemistry without the requirement of calculus. Four lecture, three laboratory hours per week. Prerequisites: 235; 305b or 341c, and one year of physics or consent of instructor.

**461-12 (4,4,4) Physical Chemistry.** A fundamental course in physical chemistry. Three lecture, three laboratory hours per week. Must be taken in a,b,c sequence, and each is a prerequisite for the next course in the sequence. Prerequisites: 235 (concurrent), 341c, 12 hours of physics, and one year of calculus.

**464-3 Intermediate Physical Chemistry.** Intermediate between the first year of undergraduate physical chemistry and advanced physical chemistry. Gives a broad foundation in physical chemistry. Three lecture hours per week. Prerequisite: 461c.

**490-2 Chemical Literature.** A description of the various sources of chemical information and the techniques for carrying out literature searches. Two lecture hours per week. Prerequisites: 235; 305b or 341c, reading knowledge of German or consent of instructor.

**496-2 to 6 Chemical Problems.** Investigation of relatively simple problems under the direction of a staff member. Prerequisites: senior standing, major in chemistry with a 4.00 grade-point average, and consent of chairman.

**511a-3 Advanced Inorganic Chemistry.** Theoretical and empirical treatment of chemical bonding and molecular structure. Prerequisite: 461c.

**517-3 Laboratory Techniques in Inorganic Chemistry.** Advanced techniques for the inorganic research chemist. Prerequisites: 412; 511a, consent of instructor.

**519-2 to 30 (2 to 6 per quarter) Advanced Topics in Inorganic Chemistry.** Selected topics such as kinetics of inorganic reactions, stereochemistry of inorganic systems, chemistry of coordination compounds, nonaqueous solvent systems, and others. Prerequisites: 511a, consent of instructor.

**531-3 Theory of Quantitative Analysis.** The phenomena utilized in analytical chemistry with emphasis on separation, organic reagents, and complex methods. Lecture. Prerequisite: 433.

**539-2 to 30 (2 to 6 per quarter) Advanced Topics in Analytical Chemistry.** Selected topics such as microanalytical chemistry, absorption spectroscopy, and electroanalytical chemistry. Prerequisite: 432.

**541-3 Advanced Organic Chemistry.** An advanced course covering covalent bonding, structure, stereochemistry, reactions, reaction mechanisms, substituent effects, correlation of physical and chemical properties, and physical methods in organic chemistry. Lecture. Prerequisite: 444.

**547-3 to 6 Advanced Laboratory Preparations in Organic Chemistry.** Prerequisites: 446, consent of instructor.



**549-2 to 30 (2 to 6 per quarter) Advanced Topics in Organic Chemistry.** Specialized topics in organic chemistry. The topic to be covered is announced by the department. Prerequisite: 543.

**561-3 Chemical Thermodynamics.** Basic methods and theories as applied to chemical problems. Lecture. Prerequisites: 461c.

**562-3 Atomic and Molecular Structure.** A survey of basic principles in atomic spectroscopy, quantum chemistry, and statistical thermodynamics. Lecture. Prerequisite: 561.

**569-2 to 30 (2 to 6 per quarter) Advanced Topics in Physical Chemistry.** Colloids and macromolecules, quantum chemistry of atoms, diatomic molecules or polyatomic molecules, statistical mechanics and others. Prerequisite: 561.

**575-1 to 3 Graduate Seminar.** Advanced level talks presented and discussed by graduate students. Required for all graduate students.

**597-3 to 15 Research and Thesis.** Prerequisite: consent of chairman.

### Counselor Education

**410-4 (2,2) Dynamics of Campus Leadership.** Organized presentation of accurate information about the University's historical development and plans for future growth, organizational structure, philosophy, administrative policies, and goals with emphasis on the role of student groups in the educational community. (a) Elected or potential student leaders. (b) Resident assistants. Prerequisite: consent of instructor.

**420-4 Educational Statistics.** The statistics needed by teachers for classroom use, the reading of educational literature, and informal educational research. Includes methods of organizing and presenting data, describing group performance, describing individual performance, model distributions, measure of relationship, measures of reliability, and tests of significance. Prerequisite: 305.

**422-4 Educational Measurements I.** Study of the philosophy and techniques of measurement. Special attention to the construction and use of teacher-made tests and basic concepts related to standardized tests. Prerequisite: 305.

**426-4 Individual Inventory.** Principles and procedures for studying individual pupils and their problems for guidance purposes. Emphasis on interview, observation, ratings, case study, cumulative record, etc. Prerequisites: 422b, 442.

**483-6 Community Programs for the Prevention of Juvenile Delinquency.** Analysis of delinquency prevention in community programs administered by the public schools, social welfare, governmental agencies. A study of the various categories of juvenile delinquency is applied to a critique of existing programs and to the development of experimental programs. The roles of professional workers pertinent to such programs are delineated with special reference to the public school administration, counselor, and social workers, the court, probation officers, and police. Prerequisite: consent of instructor.

**485-4 to 9 Workshop in Educational Utilization of Community Resources.**

**501-2 to 8 Special Research Problems.** For majors in Counselor Education. Formulating, investigating, and reporting on a problem in the area of guidance. Prerequisites: advanced standing, consent of instructor.

**510-4 College Student Personnel Services.** An overview of the student personnel program in higher education for the beginning graduate student. Various types of organizational structures in higher education. Description and discussion of the functions of college student personnel programs, with emphasis on the organizational relationships of the various functions. Prerequisite: admission to program.

**511-4 Educational Implications of Learning Theories.** Survey of the major theories of learning. Emphasizes the implications of these theories for classroom practice. Prerequisite: advanced standing.

**515-4 Psychological Aspects of Education.** Designed to survey the applications of psychology to educational settings. Prerequisite: advanced standing.

**520-8 (4,4) Educational Statistics and Experimental Design.** (a) Statistical methods needed for educational research. Includes tests of significance, non-parametrics, correlation analysis, and test selection. Prerequisite: 422b. (b) Systems of organizing and analyzing data so that maximum information can be obtained. Includes analysis of variance, factorial design, square designs, mixed designs, tests of homogeneity, analysis of covariance, etc. Must be taken in a,b sequence. Prerequisites: 422b, 570a.

**522-4 Educational Measurements II.** Study of standardized tests and other



measuring devices to reveal individual and group characteristics. Emphasizes application and interpretation for counseling, education, and research purposes. Prerequisites: 420, 422.

**525-4 School Behavior Problems and Their Prevention.** A survey of the approaches to the study of personality-development and socialization of the school child. Methods used in the correction of behavior problems are considered. Prerequisite: consent of instructor.

**526-4 Techniques in Individual Guidance.** Each student employs psychometric procedures, makes observations, and holds interviews with a pupil, his parents, teachers, and others. Prerequisite: consent of instructor.

**528-4 Advanced Guidance of the Individual.** A continuation of 526. Techniques and the methods of treatment applicable to a particular case. Problems for consideration: educational difficulties, physical disorders, and the ways in which these are related to behavior of school children. Prerequisite: 526.

**535-4 Introduction to Individual Measurement.** Survey of theories and practices in the individual assessment of human behavioral characteristics, to develop understanding and appreciation of these concepts for use in the counseling relationship. Prerequisite: 522.

**536-12 (4,4,4) Appraisal of Intelligence.** (a) Child. Individual instruction in administering the Revised Stanford-Binet Tests. Instruction designed to assist student to interpret the test results. Additional individual instruments introduced. Emphasis on early childhood testing. Prerequisite: 535. (b) Child and Adult. Individual instruction in administration and interpretation of the Wechsler tests. Instruction designed to assist student in report writing. Emphasis from early childhood to adulthood. Prerequisite: 535. (c) Preschool. Individual instruction in administration of preschool tests. Age range of infants through six years. Prerequisites: 535, 536a.

**537-4 Counseling Theory and Practice I.** Systematic study of the major approaches to counseling. Observation and practice utilized to supplement didactic discussion. Prerequisite: 542.

**538-4 Counseling Theory and Practice II.** Systematic study of major theories of counseling as applied to school situations. Supervised experience in role-playing or laboratory experience utilizing these approaches. Prerequisite: 537.

**541-4 Occupational Information and Guidance.** Designed for school counselors, industrial supervisors, and teachers to give an orientation to and experience with occupational information and vocational adjustment. Prerequisite: 542.

**542-4 Basic Principles of Guidance.** Introductory course on student personnel services. Survey of philosophy, principles, and organization of guidance services. Prerequisite: 305.

**543-4 Guidance Through Groups.** Study of the methods, techniques, and materials for the organization and utilization of groups for guidance purposes. Prerequisite: 442.

**545-8 to 16 Seminar.** (a) Problems in guidance. A seminar designed to analyze current problems in guidance. Prerequisite: advanced standing. (b) Learning and Communications. Students examine theory and research related to communication by reviewing literature, designing studies, and conducting research projects. Prerequisite: consent of instructor. (f) Pupil adjustment. Analyses various concepts of adjustment and instruction. Analyses research in classroom learning and implications for the classroom. Included are practice and review, transfer of training, retention and forgetting, and motivation. Prerequisite 511. (j) Organization and administration. Analysis of principles, procedures, and plans necessary for initiating, developing, and appraising a school guidance program. Prerequisite: 537.

**562-8 (4,4) Human Development in Education.** Theories and research evidence regarding child development and behavior are investigated. These considerations focus upon implications for research and educational practices. (a) Childhood. Prerequisite: advanced standing. (b) Adolescence. Must be taken in a,b sequence.

**575c-1 to 12 Practicum in Secondary Guidance.** Supervised experience in guidance functions. Includes counseling with secondary school pupils, conducting parent interviews, consulting with teachers, and the collection and dissemination of information. Prerequisite: consent of practicum coordinator.

**576-4 Practicum in School Personnel Work.** Laboratory research course for advanced majors. Students to assist with testing programs, keeping records, counseling students. Research projects to accompany practical experience. Prerequisites: advanced standing, consent of instructor.

**Economics**

**411-4 Collective Bargaining and Dispute Settlement.**

**416-4 Money and Banking II.** Emphasis upon the Federal Reserve System and other banking systems. Prerequisite: 300.

**418-4 Economic History of Europe.**

**429-4 International Economics.** Intensive treatment of the principles of international economics with special emphasis on the classical and modern theories of international trade. Income effects. Balance of payments adjustments. Prerequisites: 200, 201.

**431-3 Public Finance II.** State and local. Prerequisite: 330 or consent of instructor.

**432-3 Fiscal Policy of the United States.** Countercyclical, secular, and emergency use of government expenditures, debt, and taxes. Prerequisite: 210 or consent of instructor.

**436-3 Government and Labor.** (Same as Government 436.) A study of labor relations and legislation considering both constitutional and economic aspects. Prerequisites: 200, 201.

**440-4 Intermediate Micro Theory.** A more intensive treatment of price theory. Prerequisite: 201.

**441-4 Intermediate Macro Theory.** Basic analytical concepts of the modern theory of aggregative income determination. Prerequisite: 200.

**450-6 (3,3) History of Economic Thought.** A two-term sequence covering the development of economic theory. (a) Ancients to 1850; (b) 1850 to present. Must be taken in a,b sequence. Prerequisites: 200, 201.

**465-4 Mathematical Economics I.** A systematic survey of mathematical economic theory. Conditions of static equilibrium (including stability conditions), dynamic models using difference equations, and linear production models of input-output analysis and activity analysis (linear programming). Prerequisites: 440, consent of instructor.

**467-4 Econometrics I.** Introduction to resource allocation under uncertainty. Probabilistic economic models, theory of games and economic choices, and stochastic economic processes. Prerequisite: consent of instructor.

**470-3 Business Cycles.** Major business fluctuations in the United States. Prices, employment, production, credit, inflation and deflation, and government action during the cycles. Prerequisite: 315.

**473-4 Business Enterprise and Public Policy.** Some of the major problems of social control of business arising out of the operation of business in modern society; covers types of control, necessity, and effects of controls. Prerequisite: senior standing.

**481-3 Comparative Economic Systems.** Capitalism, socialism, fascism, and other forms of the economy. Prerequisites: 200, 201.

**501-1 to 5 Economic Readings.** Contemporary books and periodicals in economics. Prerequisite: consent of chairman.

**504-4 Economic Analysis.** Determination of prices, output, payments to labor, land, and capital under a market system. Theory of economic decision-making by the business firm. Introduction to macroeconomics. Restricted to Master of Business Administration students.

**505-4 Theory of the Firm.** Price determination under competitive conditions and under other market structures. Includes demand analysis, business forecasting, returns to factors of production, and evaluation of capital outlays. Prerequisite: 504.

**512-4 Labor Economics.** Economic principles involved in the employment relationship. Such topics as wage theory, the labor market, employment and unemployment, and the economic effect of collective bargaining. Prerequisite: 310, or 411, or consent of instructor.

**517-4 Monetary Theory and Policy.** Current monetary theory and policy emphasized. Federal Reserve policy is analyzed. Necessity for coordination of monetary policy with fiscal policy and debt management operations is discussed. Prerequisites: 315 and 441, or consent of instructor.

**519-4 Economic Growth.** Intensive examination of the problems (past and present) of economic development faced by nations everywhere. Attention to the alternative solutions which have been, or are being, attempted. Prerequisite: 317, or 418, or consent of instructor.



**533-4 Public Finance Theory and Practice.** Historical development of public finance theories with analysis of their policy implications. Prerequisite: 330 or consent of instructor.

**541-4 National Income Theory.** Keynesian and post-Keynesian developments in national income theory. Empirical research concerned with characteristics and magnitudes of important national income concepts, such as the consumption function. Recent American policies and problems bearing on national income fluctuations. Prerequisite: 441 or consent of instructor.

**542-4 Price Theory.** Designed to develop skills in the use of the analytical tools, including the basic mathematical techniques, used in price theory. Prerequisite: 440 or consent of instructor.

**543-4 Seminar in Economic Policy.** A consideration of departures in the American economy from the principle of resource allocation by the price system, and an attempt to develop principles of economic policy which could serve as guides in efforts to raise living standards and promote economic growth. Prerequisites: 440 and 441 or consent of instructor.

**566-4 Mathematical Economics II.** Linear programming. Input-output analysis and general equilibrium models. Prerequisite: 440 or 465, or consent of instructor.

**582-4 Economic Behavior.** A theoretical and empirical study of the behavioral aspects of economics, including the behavior of firms, households, and government. Draws upon the recent literature of economics and also on frontier areas, upon directly relevant concepts and findings of related behavioral sciences. Prerequisite: 400 or equivalent or consent of instructor.

**599-1 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree.

### **Educational Administration and Supervision**

**420-4 Legal Basis of American Education.** Particular emphasis is placed on common law principles.

**431-4 History of Education in the United States.** A historical study of the problems of American education which have relevance to contemporary education.

**432-4 Public Opinion, Propaganda, and Education.** Analysis and classification of propaganda. Designed to show how public opinion is formed by a use of current materials from the different channels of communication. Differences between propaganda and indoctrination.

**434-4 Administrator's Workshop.** A special program for the consideration of administrative problems pertinent to superintendents, high school principals, and elementary school principals.

**456-4 School Supervision.** The function of the principal or supervisor in the improvement of instruction. Some activities, methods, and devices for improving the effectiveness of teaching.

**480-4 Backgrounds of Urban Education.** (See also Elementary Education 480 and Secondary Education 480.) Social, economic, and demographic factors as they impinge upon programs in urban schools. Prerequisite: consent of instructor.

**490-4 to 12 International Field Studies in Comparative Education.** Selected aspects of national systems of education examined in their social matrix. By means of direct observations, conferences, lectures, and seminars, the advanced education student is helped to gain a mature perspective on American education through comparison and contrast with educational systems of other societies critically to evaluate American educational patterns in light of observed alternatives, and to develop fresh curricular approaches in the area of international understandings through an examination of other cultural patterns. With permission of instructor this course may be repeated with credit.

**500-4 Research Methods.** Introduction to educational research with practical training in research writing techniques and evaluation in education.

**501-4 Seminar in Educational Administration.** The interdisciplinary approach to the study of the theory of educational administration. Open to students in approved sixth year and doctoral programs only.

**502-4 Seminar in Comparative Education.** Educational ideas and practices of various countries of the world, both Eastern and Western, and their impact upon our culture and education.

**503-4 Seminar in Philosophy of Education.** An interpretation of modern educational problems and trends in the light of basic philosophical viewpoints. Excerpts from leading writings are used. Prerequisite: 554 or equivalent.

**504-4 Seminar in History of European Education.** Survey and interpretation of education in Europe from the Greek era to the present. Stresses relationship of European to American education.

**506-4 Seminar: Curriculum in Relation to American Culture.** The effect of historical movements on curriculum in our nation at all ages and grade levels continued on a more intensive basis as applied to present-day curricular patterns. Prerequisite: 460 or consent of instructor.

**511-12 (4,4,4) Internship Practicum.** The study of theory and practice in school administration pursued simultaneously by the student in cooperation with a public school and the Department. Prerequisite: consent of the department advisory committee.

**520-4 Illinois School Law.** Study of the legal aspects of Illinois public education with principal emphasis on statutory law and its interpretation by the courts. Prerequisite: 420.

**524-4 School Administration.** Designed primarily for those who look forward to positions as supervisors, principals, or superintendents.

**525-4 Personnel Administration.**

**533-4 School Buildings.** Various phases of physical plant design and maintenance of concern to the school administrator.

**534a-4 School Finance.** A study of the principles and issues of Public School Finance. Revenues, expenditures, indebtedness, and fiscal controls.

**534b-4 School Business Administration.** Principles and practices governing management of business affairs of a public school system.

**551-4 Community Junior College Curriculum.** Expanding curricula of the community junior college. College parallel, occupational technical, general developmental, and adult and community service programs critically analyzed. Investigation of techniques of curriculum development that implement desirable program changes. Prerequisite: 565 or consent of instructor.

**553-2 to 12 Practicum in Urban Education.** Training in professional practice and inquiry in urban classrooms. Systematic investigations of educational problems characteristic of inner city schools. Intensive supervision provided by University and school staffs. Demonstration of competence in designing and implementing research strategies, in analyzing and interpreting data, and in applying findings to teaching strategies. May complete practicum while serving as interns or as unpaid assistants. Appointments contingent upon admission to the urban education program and upon approval of the candidate by both the school and the University.

**554-4 Contrasting Philosophies of Education.** Deals both historically and contemporaneously with the ideologies which have developed from different concepts of education. Prerequisite: 355 or Philosophy 355 or equivalent.

**556-4 Seminar in Educational Supervision.** Special research problems in supervision for advanced graduate students.

**560-4 Curriculum.** Modern practices and procedures in curriculum development, with attention to the professional, social, economic, and other major factors, in curriculum planning.

**563-4 Workshop in School Public Relations.** Designed to meet the needs of teachers, supervisors, and administrators, in the area of public relations. Prerequisite: consent of instructor.

**565-4 The Community Junior College.** Survey of the community junior college movement. History, philosophy, objectives, and expansion of this unique American educational phenomenon. Special attention given to these factors in the developing social scene that significantly influence the character of community junior colleges.

**575-2 to 4 Individual Research.** Selection, investigation, and writing of a research assignment under the personal supervision of a graduate faculty member in one of the following areas: (a) curriculum, (b) supervision, (c) buildings, (d) finance, (e) school law, (f) comparative education; (g) history of education, (h) philosophy of education, (j) administration, (k) elementary education. Prerequisites: 500, approval of adviser, consent of instructor.

**596-5 to 9 Independent Investigation.** Field study required of each student working for the sixth-year specialists certificate.

**597-1 to 3, 598-1 to 3, 599-1 to 3. Thesis.** Minimum of 5 hours to be counted toward the master's degree.



### Elementary Education

**413-4 Children's Literature.** Emphasizes types of literature, analysis of literary qualities, selection and presentation of literature for children. Not for students who have had English 213. Prerequisite: Counselor Education 305.

**415-2 to 4 Improvement of Instruction in Arithmetic in the Elementary School.** Items to be taught, the grade placement of content, newer instructional practices and materials of instruction, and means of evaluating achievement. Prerequisite: Mathematics 210 or consent of instructor.

**433-4 Workshop in Elementary Education.** Meets needs of in-service teachers in such areas as curriculum adjustment, remedial teaching, child development, and early childhood education.

**437-4 Problems in Reading.** Practices and trends in the teaching of reading; materials of instruction in reading, particularly remedial materials; techniques and materials for prevention of reading difficulties; diagnosis and remediation of reading difficulties. Prerequisites: 337 senior standing. Not open to students who have had 505.

**442-4 Science for the Elementary Teacher.** Study of content and methods of elementary school science.

**470-3 Workshop in Sex Education for Elementary Teachers.** (Same as Health Education 470.) Designed to encourage elementary school teachers to integrate sex education concepts into their teaching program. Current theories and knowledge concerning the psychosocial aspects of the maturation process are related to the content used for teaching pupils at various grade levels. Specialists in psychology, public health, and social welfare offer a multi-discipline approach to help teachers plan a program based upon the characteristics and needs of pupils.

**480-4 Backgrounds of Urban Education.** (See also Educational Administration 480 and Secondary Education 480.)

**505-4 Improvement of Reading Instruction.** (See Secondary Education 505.) First course in the reading sequence. Survey of reading problems, aspects of the reading process, modern practices in teaching reading.

**507-2 to 4 Readings in Reading.** Independent reading; acquaintanceship with the literature and research in reading. Conference periods. Prerequisites: 505, consent of instructor.

**509-4 to 8 Practicum in Reading.** For advanced student. Teaching demonstrations and evaluations. Each student works with a group of reading disability cases. Prerequisites: 512a,b, and c, and consent of instructor.

**514-4 Organization and Administration of Reading Programs.** For reading specialists, principals, supervisors, consultants. Recent trends in elementary and high school reading programs, providing reading instruction for total school population, materials and equipment, in-service training, role of the reading specialists. Problems of class members are studied and discussed. Prerequisite: 561.

**515-4 Special Problems in the Teaching of Arithmetic in the Elementary School.** A seminar course which covers important problems in arithmetic in the elementary school. Variable content. Prerequisite: 415 or consent of instructor.

**518-2 to 4 Supervision of Student Teachers.** The function of the supervisory teacher in the student teacher situation. Particular attention to the problem of student teaching in the public schools. Designed for present and prospective teachers who wish to be more effective in dealing with student teachers.

**521-12 (4,4,4,) Diagnosis and Correction of Reading Disabilities.** Causes of reading difficulties; observation and interview procedures; standardized tests, instruments, and informal inventories; analysis techniques; experiences in preparing materials for corrective purposes. Each student diagnoses and treats a reading disability case under supervision. Prerequisites: 505, or concurrent registration with 505, and teaching experience.

**541-4 Problems in Elementary School Science.** Emphasis upon identifying and planning for the solution of problems related to the science curriculum, and problems in the classroom concerning teaching and learning. Prerequisites: 441, or 442, and Educational Administration 500.

**542-4 Language Arts in the Elementary School.** The practical bearing of investigation and theory on the improvement of current practices in the



teaching of the language arts other than reading. Attention given to evaluation of teaching materials in these areas.

**543-4 Teaching the Social Studies in the Elementary School.** Organization of material for teaching purposes, techniques of classroom presentation, bibliographies or materials, use of audio and visual aids to instruction, and techniques for evaluating student progress. Readings, lectures, and discussions related to required teaching experience.

**557-4 The Elementary Principalship.** Designed to meet many of the particular needs of persons interested in qualifying for appointments as elementary school principals. Other than the administrative responsibilities of the elementary principal, such topics as the grouping of pupils, the elementary school's program, and personnel area studied.

**559-4 Workshop in Instructional Leadership in Elementary Education.**

**561-4 The Elementary School Curriculum.** A critical study of the reorganization, construction, and administration of the elementary school curriculum, and the installation, adaptation, and administration of the revised curriculum.

**567-12 (4,4,4) Teaching Competencies and Their Application.** Individualized and flexible group study of teaching behavior in competency centers. Skills are developed, applied, and tested in simulated or field settings.

**575-2 to 4 Individual Research.** The selection, investigation, and writing of a research topic, under the personal supervision of a member of the departmental graduate staff, in one of the following areas: (a) curriculum, (b) supervision, (c) language arts, (d) science, (e) reading, (f) social studies, (g) problems in elementary education, (h) arithmetic, (j) problems in kindergarten-primary, (k) elementary education administration and supervision.

**596-5 to 9 Independent Investigation.** Field study required of each student working for the sixth year specialist certificate. The work should be done in the setting of a school system where the student is employed or where full cooperation is extended. The study involves selecting of the problem, survey of pertinent literature, recording of results, and appropriate interpretations and summarizations.

**597-1 to 3; 598-1 to 3; 599-1 to 3 Thesis.** Minimum of 5 hours to be counted toward a master's degree.

## Engineering

**405-5 (4,1) Generalized Radiation.** (a) Theory of electromagnetic and mechanical radiation. Analysis of wave motion, properties of progressive waves, and boundary conditions. Examples taken from radiation in fluids and elastic media, and from electromagnetic radiation. (b) Laboratory. Prerequisite: Physics 305a,b.

**410-8 (4,4) Electron Devices.** Study of active networks utilizing transistors and tubes from both analytic and synthetic points of view. Audio, video, operational, power amplifiers; LC, RC, and relaxation oscillators; power supplies; small-signal, large-signal, switching; wave shaping; analog and digital computing circuits. Prerequisites: 200, 201, 310, concurrent enrollment in 411.

**411-2 (1,1) Electron Devices Laboratory.** Experiments illustrate the analytic material in 410 and provide experience in synthesizing active circuits. Prerequisites: 200, 201, 310, concurrent enrollment in 410.

**420-6 Transport Phenomena.** Principles and mechanism of energy, mass, and momentum transport. (a) Molecular motion, laminar flow of a continuum, and transport in solids. (b) Turbulent flow, interphase transport, radiative transfer, and macroscopic balances of mass, energy, and momentum. Laboratory projects are scheduled. Prerequisites: 300a, 311.

**423-3 Hybrid Computation.** The simultaneous use of the analog and the digital computer for the solution of engineering problems. Scaling of problems. Block diagrams and logic are stressed. Linear and nonlinear differential equations. Simulation as well as iterative analog computation are covered. Prerequisite: 222 or Mathematics 225.

**443-6 (3,3) Engineering Design.** Principles of engineering design. Individual laboratory projects of a research design or development nature to study systems simulation of instrumentation are selected by the student. Prerequisite: 410.

**460-8 (4,4) Engineering Analysis for Decision Making.** (a) Introduction to fundamental concepts and theorems of engineering analysis with emphasis

on the theory of linear, dynamic, and integer programming. Network analysis, inventory theory, simplex and revised simplex method, and dual theorem. Prerequisites: Mathematics 252b, 361 or consent of instructor. (b) Introduction to advanced linear programming, nonlinear, probabilistic, and stochastic programming. Prerequisites: 370, 460a, or consent of instructor.

**470-12 (4,4,4) Geodesy.** (a) Geometry of the ellipsoid; geodetic systems; geodetic curves; and computations of coordinates, distances, and azimuths. Prerequisite: Mathematics 252b. (b) Astrogeodetic methods; potential theory; Laplace and Poisson equations; spherical harmonics; and gravity potential. Prerequisite: Mathematics 305b. (c) Reductions of gravity; introduction to satellite geodesy; and world geodetic systems.

**472-3 Digital Computers in Research.** Basic foundations used in operations research. An intensive study in the use of digital computers as related to topics such as probability and statistics, matrices, game theory, Monte Carlo techniques, distribution and scheduling problems, and simulation. Prerequisite: Mathematics 225.

**523-3 Digital Simulation Techniques.** Review of probability, generation of pseudo-random numbers, the Monte Carlo technique, sampling, variance reduction techniques, conditional Monte Carlo, model generation, simulation of discrete systems, simulation of continuous systems, selected simulations from business, electronics, and competitive problems. Prerequisite: 472.

**524-6 (3,3) Linear and Non-Linear Programming.** Origin of linear programming problems; properties of solutions; simplex and other methods of computation; duality and its interpretation; capacitated flow problems; applications to industry. Non-linear programming; Lagrange multipliers; discrete programming. Prerequisite: bachelor's degree in mathematics, natural science, or engineering.

**525-3 Analog and Digital Methods.** A comparative study of the types of problems handled most successfully by each of the two classes of computers to facilitate intelligent decisions as to what combination of machines are required in a given situation. Prerequisite: bachelor's degree in mathematics, natural science, or engineering.

**526-3 Simulation and Data Processing.** The use of digital and analog computers as simulators of industrial processes. Construction of flow charts, fixed time increments, and time status register methods of organization. Prerequisite: 525.

**531-8 (4,4) Operations Analysis and Synthesis.** Mathematical bases for decisions and programming in industry; models, methods, and objectives of systems engineering; specific methods and problems; emphasis on practical validity and use of empirical methods. Problem solving in operations research, including research-type reports by students. Prerequisite: bachelor's degree in mathematics, natural science, or engineering.

**533-3 Program Evaluation and Review Technique.** The use of operations analysis and synthesis to obtain optimum decision making in engineering programs of design and development. Prerequisite: bachelor's degree in mathematics, natural science, or engineering.

**560-8 (4,4) Automatic Control Theory.** Principles of feedback control applied to linear, lumped parameter systems; use of Nyquist, Bode, root-locus, phase-plane analysis; stability criteria. Emphasis on systems aspects; use of theory in automated industrial processes and instrumentation.

**590-2 to 4 Readings in Engineering Mathematics.** Selected topics in applied mathematics. Emphasis upon setting up and solving differential, difference, and integral equations for problems of practical significance in engineering design and systems analysis.

## English

**400-4 Introduction to English Linguistics.** An introduction to the methods of descriptive linguistics as applied to English: the phonemics, morphemics, and syntax of English. Recommended for those preparing to teach English.

**403-4 History of the English Language.** A survey of the development of the language from Indo-European to modern English with special emphasis on Middle and Early Modern English changes.

**404-12 (4,4,4) Middle English Literature.** (a) Middle English literature excluding Chaucer; (b) Chaucer: early poems and *Troilus*; (c) Chaucer: *Canterbury Tales*. May be taken separately.



- 405-8 (4,4) Descriptive Linguistics.** (a) Phonetics and phonemics, an analysis of language structure from phone to phoneme; (b) morphology and syntax, an analysis of language structure from morph to sentence. May be taken singly. Prerequisite: consent of instructor.
- 412-16 (4,4,4,4) English Nondramatic Literature.** (a) 16th century, (b) 17th century, (c) The Augustan Age, 1660-1744, (d) The Age of Johnson, 1744-1798. May be taken separately.
- 420-8 (4,4) American Poetry.** (a) Trends in American poetry to 1900 with a critical analysis of the achievement of the important poets, (b) the important poets since 1900. May be taken separately.
- 421-16 (4,4,4,4) English Poetry.** (a) Early Romantics: major emphasis on general background and on Blake, Coleridge, and Wordsworth; (b) later Romantics: emphasis on Byron, Shelley, and Keats, the minor figures; (c) Victorian poets: Tennyson, Browning, Arnold, and other poets of England, 1830-1900; (d) modern British poets. May be taken separately.
- 431-12 (4,4,4) Major American Writers.** Significant writers of fiction and non-fictional prose from the Puritans to the 20th century: (a) 1620-1800, (b) 1800-1865, (c) 1865-1915. May be taken separately.
- 438-4 Intellectual Backgrounds of American Literature.** The relationship of basic ideas in America to American literature.
- 441-4 The Eighteenth Century Essay.**
- 442-4 Romantic Prose.** Fiction of Austen Scott, Mary Shelley, Peacock, the Gothic novelists; prose of Lamb, Landor, Hazlitt, DeQuincey; criticism, journals, and letters.
- 443-4 Victorian Prose.** The chief writers of nonfictional prose from the late Romantics to 1880.
- 447-4 American Humor and Satire.** A consideration of the writers and forms of 19th and 20th century humor.
- 454-12 (4,4,4) English Fiction.** (a) 18th century: Defoe through Jane Austen, (b) Victorian novel: 1830-1880, (c) 20th century. May be taken separately.
- 456-4 Modern Continental Fiction.** Selected major works of European authors such as Mann, Silone, Camus, Kafka, Malraux, Hesse.
- 458-8 (4,4) American Fiction.** (a) The novel in America from its beginning to the early 20th century, (b) trends and techniques in the American novel and short story since 1914. May be taken separately.
- 460-16 (4,4,4,4) British Drama.** (a) Elizabethan drama: from the beginning of the drama in late Middle Ages through its flowering in such Elizabethan playwrights as Greene, Peele, Kyd, Marlowe, Heywood, Dekker, but excluding Shakespeare; (b) Jacobean drama: the Jacobean and Caroline playwrights: Jonson, Webster, Marston, Middleton, Beaumont and Fletcher, Massinger, Ford, Shirley; (c) Restoration and 18th century drama: after 1660, representative types of plays from Dryden to Sheridan; (d) Modern British drama. May be taken separately.
- 464-4 Modern Continental Drama.** The continental drama of Europe since 1870; representative plays of Scandinavia, Russia, Germany, France, Italy, Spain, and Portugal.
- 468-4 American Drama.** The rise of the theater in America; with readings of plays, chiefly modern.
- 471-8 (4,4) Shakespeare.** (a) The plays before 1600. (b) The plays of 1600 and later. Readings on the life of Shakespeare, the theater, and the acting companies. May be taken separately.
- 473-4 Milton.** Reading of *Paradise Lost*, *Paradise Regained*, *Samson Agonistes*, minor poems, major treatises.
- 485-4 Problems in the Teaching of English.** Aims, methods, materials, tests, programs, and other aspects of English instruction in the high school.
- 486-2 to 8 Workshop in High School English.** Intensive study in lectures, laboratory, and conferences, on the teaching of English in high school. Curriculum, materials, methods, aims.
- 487-2 to 8 Workshop in Junior High School English.** Intensive workshop study in lectures, laboratory, conferences on the teaching of English in junior high school. Curriculum, materials, methods, and aims. Directed by competent authorities in the field.
- 488-9 (3,3,3) Methods of Teaching English as a Foreign Language.**
- 492-8 (4,4) Professional Writing II.**
- 495-8 (4,4) Literary Criticism.** (a) History of criticism: ideas and techniques from Aristotle to the end of the 19th century, (b) modern criticism: recent critics and critical attitudes, and practice in writing criticism.



- 499-2 to 6 Readings in English.** For English majors only. Departmental approval required. No more than four hours may be taken in any one quarter.
- 500-4 Materials and Methods of Research in English.** The principal tools of literary scholarship and the more important studies and journals. Practice in the preparation of selective bibliographies and scholarly reports.
- 501-4 Old English Grammar.** The development of the forms, the grammar, and readings.
- 502-4 Beowulf.** Readings of the poem and study of its form, language, and history. Prerequisite: 501.
- 504-4 Advanced English Syntax.** A study of generative grammars. Prerequisite: consent of instructor.
- 505-4 Contrastive Linguistic Structures.** A comparison of the structure of English with the structure of other languages. Prerequisite: consent of instructor.
- 508-4 to 8 Studies in Chaucer.**
- 509-4 to 8 Studies in Middle English Literature.**
- 511-4 to 8 Studies in the Renaissance.**
- 513-4 to 8 Studies in 17th Century Literature.**
- 514-4 to 8 Studies in Restoration and 18th Century Literature.**
- 519-4 to 8 Studies in Contemporary British Literature.**
- 520-4 to 8 Studies in Romantic Writers.**
- 521-4 to 8 Studies in Victorian Poetry.**
- 524-4 to 8 Studies in the Metaphysical Poets.**
- 531-4 to 8 Studies in American Colonial Period.**
- 532-4 to 8 Studies in American Transcendentalism.**
- 534-4 to 8 Studies in Early 19th Century American Writers.**
- 536-4 to 8 Studies in Later 19th Century American Writers.**
- 537-4 to 8 Studies in 20th Century American Writers.**
- 538-4 to 8 Problems in American Literature.**
- 540-4 Studies in Linguistics (Historical & Dialectal).** Characteristics of regional vocabulary and usage in the United States, and in their relationships to dialectal features of British English; synchronic and diachronic descriptions of American English. Prerequisite: consent of instructor.
- 543-4 to 8 Studies in Victorian Nonfiction Prose.**
- 555-4 to 8 Studies in the Victorian Novel.**
- 560-4 to 8 Studies in Renaissance Drama.**
- 566-4 to 8 Studies in Shakespeare.**
- 569-4 Seminar in Special Problems of English as a Foreign Language.** Independent study in preparing and testing of instructional materials for the teaching of English as a foreign language. Restricted to English as a Foreign Language students.
- 579-16 (4,4,4,4) Studies in Modern Literature.**
- 580-4 Traditional Themes.** Persistent themes and legends in literature—King Arthur, Faust, Utopia, and the like.
- 581-12 (4,4,4) Problems in High School English.** (a) Composition. (b) Linguistics. (c) Literature.
- 585-2 to 8 Teaching College Composition.** Objectives, methods, and materials for the course; observation; and practice under supervision.
- 597-2 to 4 Readings in Linguistics.** Individual readings in linguistics under the guidance of a staff member.
- 598-1 to 9 Independent Review of English and American Literature.** Restricted to master's degree students.
- 599-2 to 9 Thesis.**

### Finance

- 420-4 Problems in Corporation Finance.** Application of principles of finance to specific cases. Development of analytical ability and fuller comprehension of the nature of financial problems as encountered in business and industry by combining specific cases and collateral readings. Prerequisite: 320.
- 423-4 Commercial Banking Operations.** The administration and operation of a commercial bank, including organization structure and asset management. Major problems are analyzed through study of cases. Prerequisite: 420.
- 424-4 Financial Institutions.** A study of the evolution, functions, and practices of the many types of financial intermediaries especially which have come

into prominence since World War II. Particular attention is given to commerce and investments. Prerequisite: 420.

**425-4 Investments.** A survey of the investment field in theory and practice. Study of the state and federal agencies concerned with regulation of the issuance and exchange of securities in the interest of the investing public. The analysis of the particular types of investment securities and the bases for investment decisions and the management of investment portfolios. Prerequisite: 420.

**430-4 Business Finance.** An introductory course combining both a description of the structure of business financing and an analysis of functional finance from a managerial viewpoint.

**520-4 Finance.** Basic aspects of business finance. Sources of capital, short- and long-term financial planning and policy-making, the impact of the banking systems and of money or capital markets on business finance. Restricted to Master of Business Administration students.

**523-4 Financial Management.** Deepens understanding of financial concepts and practices through analysis of case problems in the major areas affecting the financial management of business. Prerequisite: 520.

**528-4 Seminar in Finance.** Intensive study and research in a problem in management of business according to the student's particular interests. Prerequisite: 523.

## Foreign Languages

### *General Foreign Language*

**435-4 to 8 Workshop in Elementary School Foreign Language Instruction.** Designed to assist elementary school teachers in integrating foreign languages into their teaching program as well as to encourage high school teachers to introduce or supervise foreign languages at the elementary school level. To count as education or foreign languages. Prerequisite: basic language credit.

**486-8 (4,4) Materials and Methods for Teaching Foreign Languages.** Application of language learning principles to classroom procedures at different levels. Theory and practice of the audio-lingual approach, the language laboratory, and applied linguistics. Required for all majors intending to teach foreign languages. Prerequisite: one quarter of any 300-level course or consent of instructor.

### FRENCH

**451-6 (2,2,2) Seminar.** Integration of the specialized major courses and the development of a comprehensive view of the major field in terms of its relationship to the growth of Western Civilization. Required of all French senior majors.

**461-4 French Stylistics.** Study of writing style in French and its application to the development of skill in written expression. For those who wish to do advanced work in the principles of French grammar and composition. Prerequisite: 9 hours of 300-level courses or consent of instructor.

**500-2 Seminar in Contemporary French Literature.** A study of the *nouveau roman* and anti-theater from 1950 to the present.

**501-2 to 6 Seminar on a Selected French Author.** Intensive study of one author. May be taken a maximum of 3 times.

**507-3 A Study of Romanticism.** Prerequisite: graduate standing in Romance language.

**510-4 19th Century Realism.** A study of the Parnassian school of poetry, of realism and its ultimate development into naturalism in the drama and novel. Prerequisite: graduate standing in Romance language.

**520-4 Graduate Composition and Diction.** Composition based on study of contemporary French authors; individual work in pronunciation and diction determined by entrance tests.

**544-4 French Language and Culture.** Daily lecture in French on selected aspects of French culture, followed by daily classes in the development of audio-lingual skills through cultural content, followed in turn by daily classes in reading and writing. Prerequisite: the bachelor's degree with emphasis in foreign languages.

**545-3 Applied Linguistics and Remedial Phonetics.** Fundamentals of linguistics



with particular reference to their application to classroom procedures in the teaching of French, plus the analysis and correction of individual pronunciation difficulties. Prerequisite: bachelor's degree with emphasis in foreign languages.

**546-3 Professional Preparation.** Principles and practice of teaching foreign languages. Analysis of current trends and methods. Effective use of modern materials and techniques in the foreign language classroom. Visual aids, the language laboratory, textbooks, testing, organization of foreign language courses on various levels. Prerequisite: bachelor's degree with emphasis in foreign languages.

#### GERMAN

**401-4 Faust.** Analysis of both parts of Goethe's masterpiece, its background, meaning, and impact on world literature together with a general survey of the life and times of the author. Prerequisites: 201, one quarter of 220.

**408-4 German Civilization.** Intensive study of the German-speaking areas of the world, with emphasis on the anthropological and sociological aspects of their respective cultures (Austrian, German, Swiss, "Reichs-deutsch," etc.); lectures, reports. Prerequisite: senior standing in German language.

**413-3 German Linguistics.** Introduction to Comparative German Linguistics tracing relationships among German languages on the basis of phonology, morphology, and syntax. Prerequisite: senior standing in German language.

**451-6 (2,2,2) Seminar.** Integration of the specialized major courses and the development of a comprehensive view of the major field in terms of its relationship to the growth of Western civilization.

**500-2 Seminar in Contemporary Literature.** Intensive study of the works of representative German authors, with special reference to the correlation existing between literary expression and social, economic, and political conditions since 1900.

**501-2 Seminar on a Selected German Author.** Intensive study of one author—his life, his work, and his place in the literary and cultural development of civilization.

**506-2 Romanticism I.** Study of the forerunners of German Romanticism: Holderlin, Jean Paul; and the authors of Early Romanticism: the writers of the so-called "Berlin School," with special attention to their involvement and reaction to 18th century thought. Lectures, reports.

**507-2 Romanticism II.** Study of Patriotic Romanticism: Kleist, Arndt, Korner, Uhland, etc., and Late Romanticism: Eichendorff, Lenau, Grillparzer, Heine, Morike, etc. Lectures, reports.

**509-4 (2,2) Old High German.** (a) Phonology, morphology, etymology, and syntax. (b) Continued study of grammar and reading of Franconian, Bavarian, and Alemannic texts. Prerequisite: graduate standing in German language.

**512-3 19th Century German Novel.** German literature from the decline of Romanticism to the end of the century. A study of trends and representative works of such authors as Keller, Fontane, Raabe, etc. Lectures, reports.

**513-3 Twentieth Century German Novel.** Continuation of 512. Study of representative writers of expressionism, "Neue Sachlichkeit," etc. Lectures, reports.

#### SPANISH

**451-6 (2,2,2) Seminar.** Integration of the specialized major courses and the development of a comprehensive view of the major field in terms of its relationship to the growth of Western Civilization.

**461-4 Spanish Stylistics.** Study of writing style in Spanish and its application to the development of skill in written expression. For those who wish to do advanced work in the principles of Spanish grammar and composition. Prerequisite: 9 hours of 300-level courses.

**500-2 Seminar in Latin American Fiction.** The works of a specific novelist or group of novels on a similar theme studied as a reflection of social and cultural conditions in a country or geographical area.

**501-2 Seminar on a Selected Spanish Author.** Study of one author—his life, his works, and his relationships to the literary and social currents of his time.

**505-3 The Picaresque Novel.** Study of the *Lazarilla*, with collateral readings of other masterpieces of this genre.



**520-3 Seminar in Syntax.** Stylistics and grammatical analysis.

**525-3 The Spanish Ballads.** The romance studied as a part of the literature and folklore of Spain and the New World.

**535-3 Mexican Essayists of the 19th Century.** Currents of Mexican thought in the 19th century.

#### ROMANCE PHILOLOGY

**410-4 Romance Philology I.** Survey of phonology, morphology, and syntax changes in Romance languages in general; special attention to the developments in French and Spanish for students with concentration in these fields. Prerequisite: senior standing in Romance language.

#### Geography

**402-10 (4,3,3) Advanced Physical Geography I.** Deals with one or more of the following land forms, climate, soil, and water; depending on, and varying with, interests of the instructors. Thus, a student may register more than one time. Emphasis is directed at familiarizing the student with techniques of analysis, and at developing concepts and principles that underlie understanding of the phenomena and their geographic significance. Prerequisite: 302 or consent of instructor.

**403-7 (4,3) Advanced Physical Geography II.** Content drawn from same broad range of topics as 402. To be alternated with 402 to enable student to specialize further in physical geography. Prerequisite: 302 or consent of instructor.

**404-10 (4,3,3) Advanced Economic Geography I.** Deals with one or more of the following: transportation, manufacturing, agriculture, resources, trade and urban geography; depending on, and varying with, interests of instructors. Thus, a student may register more than one time. Emphasis is directed at familiarizing the student with techniques of analysis, and at developing concepts and principles that underlie understanding of the phenomena and their geographic significance. Prerequisite: 302 or consent of instructor.

**405-7 (4,3) Advanced Economic Geography II.** Content drawn from same broad range of topics as 404. To be alternated with 404 to enable student to specialize further in economic geography. Prerequisite: 302 or consent of instructor.

**406-7 (4,3) Advanced Cultural Geography I.** Deals with one or more of the following: population, settlement, ethnic characteristics, political factors; depending on, and varying with, interests of the instructors. Thus, a student may register more than one time. Emphasis is directed at familiarizing the student with techniques of analysis, and at developing concepts and principles that underlie understanding of the phenomena and their geographic significance. Prerequisite: 306.

**407-7 (4,3) Advanced Cultural Geography II.** Content drawn from same broad range of topics as 406. To be alternated with 406 to enable student to specialize further in cultural geography. Prerequisite: 302 or consent of instructor.

**410-8 (4,4) Quantitative Methods in Geography.** (Same as Government 410.) Statistical and computer research techniques for geographers.

**416-8 (4,4) Cartography.** Instruction and practice in the techniques of map-making and problems in map reproduction. Laboratory. Prerequisite: 310.

**417-3 Air Photo Interpretation.** Techniques in the use of air photos as source material for research on physical and social sciences. Prerequisite: 310.

**424-4 Regional Problems in Conservation.** The distribution, use, and interrelationship of the resources of the U.S. and the conservation techniques applied to them.

**426-12 (4,4,4) Photogrammetry.**

**450-3 to 15 Travel Study Course.** Enrichment through travel, supervised study, and readings on areas visited.

**461-7 (4,3) Advanced Regional Geography: Anglo-American.** Deals geographically with present-day United States and Canada. (a) A general survey of the area, open to non-majors. (b) Investigates specific topics in depth, for majors.

**462-7 (4,3) Advanced Regional Geography: Europe.** See 461.

**463-7 (4,3) Advanced Regional Geography: Mediterranean Lands and Southwestern Asia.** See 461.

**464-7 (4,3) Advanced Regional Geography: Soviet World.** See 461.

- 465-7 (4,3) **Advanced Regional Geography: Africa.** See 461.  
466-7 (4,3) **Advanced Regional Geography: Asia.** See 461.  
467-7 (4,3) **Advanced Regional Geography: Latin America.** See 461.  
468-7 (4,3) **Advanced Regional Geography: Oceania.** See 461.  
470-16 to 20 (4,4,4,4 to 8) **Urban Planning.** (See Sociology 470c) (a) Planning concepts and methods. (b) Planning administration and the planning function in public process. (c) Field problems. (e) Planning and public administration internship.  
471-8 (4,4) **Regional Planning.** Area and regional development, theory, and practices.  
475-4 to 8 **Methods of Field Geography.** Application of geographic field techniques.  
490-8 (1 to 2, 8 total) **Tutorial in Geography.** Individual and small group conferences with staff members to examine geographic concepts. Prerequisite: Institute status.  
500-4 **Geographic Techniques I.** Emphasizes field and quantitative techniques used in geography.  
501-4 **Geographic Techniques II.** Emphasizes the conceptual framework of geography, library and bibliographic techniques, and geographic writing.  
511-4 **Philosophy of Geography.** The nature of geography. Current trends in the field, present-day geographers, and schools of thought. Geography's place among the disciplines.  
515-4 to 6 **Field Course.** Actual experience in the field. Under guidance of staff members students gather data and work toward the solution of selected field problems in one particular region of the world. Not offered on campus, but in a field camp location suited to the study of selected problems. Prerequisites: 500, 501.  
520-2 to 8 **Seminar in Physical Geography.**  
521-2 to 8 **Seminar in Economic Geography.**  
522-2 to 12 **Seminar in Regional Geography.**  
523-4 **Seminar in Cartography.**  
524-2 to 8 **Seminar in Cultural Geography.**  
527-2 to 8 **Seminar in Urban and Regional Planning.**  
530-2 to 10 **Independent Studies in Geography.**  
599-2 to 9 **Thesis.** Minimum of 5 hours to be counted toward a master's degree.

### Government

- 410-8 (4,4) **Quantitative Methods in Political Science** (Same as Geography 410). Statistical and computer research techniques for political scientists.  
421-4 **Public Personnel Administration.** Analysis of problems of recruiting, retaining, and developing public service employees and related topics such as political neutrality, motivation, security, and manpower planning. Prerequisite: 320.  
422-4 **Public Financial Administration.** Survey of problems encountered in the administration of public financial resources including budgeting, accounting, auditing, and fiscal and monetary policy. Prerequisite: 320.  
423-4 **Comparative Public Administration.** Introduction to administrative organization and practices of Western and non-Western nation-states. Prerequisite: 320.  
424-4 **Administrative Law.** Principles of administrative law in the United States with special emphasis on the law of public officers and on legal procedures for the enforcement of bureaucratic responsibility. Prerequisite: 320.  
429-4 **Topics in Public Administration.** Intensive study of an administrative problem or process. Intended primarily for government concentrations with advanced standing. Prerequisite: 320.  
445-12 (4,4,4) **American Political Behavior.** (a) Survey of studies of American elections emphasizing the psychological, sociological, and political-legal bases of voting behavior. (b) Survey of research findings concerning the relationship of psychological and sociological characteristics to the political process. (c) Survey of research findings concerning the relationship of communications content and communications media to the political process. Prerequisite: 203a.  
449-4 **Topics in American Politics.** Intensive examination of one significant facet of the American political system. Primarily for government concentrations having had considerable work in the area. Prerequisite: GSB 203a.



**456-4 Topics in Comparative Politics.** Detailed study of a major question of relevance to comparative politics. For students with considerable background in government course work. Prerequisite: 350 or 355.

**472-8 (4,4) International Organizations.** (a) Description and analysis of both past and contemporary general international organizations, with special emphasis on the principles, structure, decision-making processes, operations, and problems of the United Nations and its related agencies. (b) Examination and comparative analysis of the foundations, nature, and functioning of contemporary regional organizations, their relationship to the United Nations system, and their role in world politics. Attention focused on such bodies as NATO, the Warsaw Pact, the OAS, SEATO, the Commonwealth, the Arab League, the Organization for African Unity, the European Communities, Comecon, and Lafta. Prerequisite: 200.

**473-12 (4,4,4) Foreign Politics of Major Powers.** (a) Institutional framework and decision-making processes of American Foreign policy; idealist and realist schools of thought; the national interest in historic and geographic perspective. (b) Analysis of objective strategy, and tactics of Soviet foreign policy, with emphasis on the combination of conventional and unconventional instruments including role of Communist parties. (c) Analysis of foreign policies of the major European powers, with emphasis on structural changes incident to the two world wars and the dissolution of colonial empires. Prerequisite: 370.

**479-4 Topics in International Relations.** Detailed study of a selected topic in the area of international relations. Primarily for government concentrations with advanced standing. Prerequisite: 370.

**481-8 (4,4) Descriptive Political Theory.** (a) Intensive study of major contemporary attempts to devise a general systems theory of politics. (b) The character of scientific inquiry as it relates to the discipline of political science. Prerequisite: 200.

**484-12 (4,4,4) History of Western Political Theories.** Examination of theories in the history of Western political thought. (a) Emphasis on the theories of Plato, Aristotle, the early and middle Stoa, Cicero, Augustine, and Aquinas. (b) Emphasis on the theories of Machiavelli, Bodin, Hobbes, Lick, Montesquieu, Rousseau, Burke, and Bentham. (c) Emphasis on the theories of Publius, Hegel, Comte, Mill, Marx, Green, Kropotkin, Sorel, the Fabians, and John Dewey. Prerequisite: 385.

**486-3 Workshop on Teaching the American Political Heritage.** Major concepts and topics of the American political heritage including myth, symbol, signal, natural rights, limited government, libertarianism, totalitarianism, and socialism; and methodological tools which aid communication of those topics to elementary and secondary school students in a palatable and comprehensive form.

**487-6 (3,3) American Political Theory.** Examination of leading American political thinkers. The concepts and topics of political thought in the United States are examined in relation to both the political milieu of their given periods as well as the manner in which they contributed to a developing policy. (a) From Puritan thought to Alexis de Tocqueville. (b) From Calhoun to the present. Prerequisite: 385.

**489-4 Topics in Political Theory.** Examination of the works of one major political thinker and the treatment of one major topic or idea by selected political thinkers. Primarily for students concentrating in government with advanced standing. Prerequisite: 385.

**495-12 (4,4,4) Constitutional Law.** (a) A study of the development of American constitutional law chiefly through judicial opinion. Emphasis is placed on the analysis of federalism and the distribution of powers. (b) A study of government power and the rights of property. Special attention is directed to tension between the public welfare and private rights, the extent of government power to regulate property rights, and state versus federal power over commerce and taxation. (c) A study of the nature and extent of civil rights and liberties in the United States. Special attention is given to freedom of speech, press, and association, separation of church and state, equal protection of the laws, and the rights of persons accused of crime. Prerequisite: 210 or equivalent.

**496-4 American Judicial Behavior.** Introduction to the methods, goals, and limitations of behavioral research on American courts and judges. The impact of technology on the judicial process. Prerequisite: 340c.

**499-4 Scope and Method of Political Science.** Introduction to major schools



of thought and basic research techniques in political science. Prerequisites: 200, 20 hours in courses numbered above 399.

**521-1 to 12 Readings in Government.** Supervised readings in selected subjects. Not more than 6 hours may apply toward the master's degree. Prerequisite: consent of instructor.

**529-2 to 9 Seminar in Public Administration.** Prerequisite: consent of instructor.

**545-2 to 9 Seminar in American Politics.** Prerequisite: consent of instructor.

**555-2 to 9 Seminar in Comparative Politics.** Prerequisite: consent of instructor.

**575-2 to 9 Seminar in International Relations.** Prerequisite: consent of instructor.

**585-2 to 9 Seminar in Political Theory.** Prerequisite: consent of instructor.

**590-2 to 9 Seminar in American Public Law.** Prerequisite: consent of instructor.

**599-2 to 9 Thesis.**

### Health Education

**400-4 Health Appraisal of School Children.** The role of the teacher in the health appraisal of the school child, including school health examinations, use of health records, and emphasis on training for recognition of health deviations from normal common among school children. Not open to students who have had 450.

**415s-3 Workshop in Driver Education and Traffic Safety.** Summer course designed for pre-service and in-service teachers of driver education and traffic safety. Individual and group problems are treated. Lectures by safety authorities, demonstrations, field trips, audio-visual materials, and individually supervised research in special problem areas. Prerequisite: 302 or equivalent.

**443s-4 Methods and Materials in Driver Education.** An advanced course in driver education which includes a study of existing courses of study, review of research, course-of-study planning, visitation and reporting, panel discussions, accident statistics, conducting the secondary school program, testing, and demonstration in the car. Prerequisite: 302.

**460-4 Methods and Materials in Secondary School Health Education.** Shows the prospective teacher the fundamental processes involved in the teaching of health education at the secondary level.

**461-4 Workshop in Health Education.** Summer course for in-service teachers, administrators, advanced students, nurses, social workers, and others interested in public health aspects of school and community living. Individual problems of classroom health treated as units in such fields as speech defects and their detection and correction, communicable disease control, nutrition, social and mental hygiene. Lectures, demonstration, films, field trips, and individually supervised research in special problems. Prerequisite: 100 or its equivalent.

**470-3 Workshop in Sex Education for Elementary Teachers.** (Same as Elementary Education 470.)

**471-4 Organization and Administration of School Health.** Appraisal of overall school organization for health education, including health service and personnel, health and safety instruction, school environment, school health examination, local, state, and federal resources for health, health councils, and interdepartmental relationships.

**480s-3 Workshop in Safety Education.** Summer course for in-service teachers, nurses, administrators, advanced students, and others interested in safety education as it applies to the public school and the community. Individual problems, lectures, demonstrations, films, field trips, and individual group study in special areas of interest. Prerequisite: 313 or 323 or consent of instructor.

**525s-4 Organization, Administration, and Supervision of Safety Education.** Designed to give the student basic principles of organization, administration, and supervision of safety education. Problems, policies practices, and methods involved in the organization and administration of a safety education program.

### Higher Education

**551-4 Curriculum Design and Policy.** Study of assumptions, materials, methods, and evaluation in the designs of various curricula in colleges and universities, with attention to curriculum resources and policy.

## History

- 401-4 History of the South.** An intensive study of the social, economic, political, and cultural developments of the South.
- 405-3 The American Civil War.** Emphasis upon the clash of national and sectional interests; economic, political, and military aspects of the conflict. Prerequisite: GSB 300b or consent of instructor.
- 410-2 to 5 Special Readings in History.** Supervised readings for students with sufficient background. Registration by special permission only. Offered on demand.
- 412-9 (3,3,3) Intellectual History of the United States.** (a) 17th and 18th centuries. (b) 19th century. (c) 20th century. Prerequisite: GSB 300.
- 415-12 (4,4,4) Early Modern Europe.** (a) Renaissance. (b) The Reformation. (c) Age of Absolutism and Enlightenment. Prerequisite: GSB 101b,c.
- 417-16 (4,4,4,4) Advanced English History.** (a) The Empire-Commonwealth. (b) Constitutional History. (c) English Culture in the Age of the American Revolution. (d) Tudor England.
- 420-4 The French Revolution.** A sketch of the passing of feudalism in France, the background and development of the revolutionary movement, and the Napoleonic period.
- 425-6 (3,3) American Colonial History.** (a) Discovery and Settlement, (b) British Imperial Structure.
- 426-4 The Revolution and the Constitution.** A study of the conflicting forces which produced the American Revolution, led to the creation of the federal union, and shaped the early republic.
- 428-4 The Age of Jackson.** Origins, background, and development of that phase of American democracy associated with the Jacksonian era. The political, social, and economic history of the years 1815-44 are considered in detail. Prerequisite: GSB 300a.
- 430-9 (3,3,3) Late Modern Europe.** (a) Age of Revolution, 1815-1880. (b) 1880-1918. (c) Since 1918. Age of Dictatorships.
- 435-12 (3,3,3,3) Advanced American History.** (a) 1865-1895. (b) 1896-1919. (c) 1919-1939. (d) 1940-present.
- 440-9 (3,3,3) History of American Diplomacy.** (a) To 1913. (b) 1913 to 1945. (c) Recent problems in diplomacy. Prerequisite: GSB 300a,b,c.
- 451-3 Historiography.** Development of history as a written subject, including works and philosophy of the various historians in ancient, medieval, and modern periods.
- 452-3 Historical Research and Thesis Writing.** The rules of historical research studied and applied to a definite topic. For history majors only.
- 454-3 Biography in American History.** Outstanding leaders and their contributions to the history of the United States. Attention to historical writers who specialize in biography. Prerequisite: a course in United States history.
- 458-8 (4,4) History of Science.** (a) Survey of Ancient and Medieval science with emphasis on Greek science and scientific developments of the late Middle Ages. (b) Survey of science from 1500 to 1900 with emphasis on "Scientific Revolution." Prerequisites: GSB 101b,c.
- 460-9 (3,3,3) Social and Intellectual History of the Middle Ages.** (a) 500-1000. (b) 1000-1250. (c) 1250-1500.
- 470-3 Argentina, Brazil, and Chile.** A narrative and comparative study of the independent era of the history of the three leading states of South America.
- 471-6 (3,3) History of Mexico.** (a) 19th century. (b) 20th century. Significant political, economic, diplomatic, social, and cultural aspects of Mexican life from independence to modern Mexican life.
- 473-6 (3,3) The Caribbean Area.** (a) Island states of the Caribbean. (b) Central American area.
- 474-3 United States-Mexican Relations.** A chronological and topical study of the diplomatic, economic, military, and cultural relations between the two nations.
- 500-3 to 9 History Seminar.** (a) American history, (b) European history, (c) Latin American history.
- 510-2 to 5 Readings in History.** Registration by special permission only.
- 511-3 Studies in the Middle Ages.** Extensive reading and discussion in selected topics of medieval European history.



**512-3 Studies in Nineteenth Century Europe.** An advanced readings course in selected problems of nineteenth century Europe. Emphasis on economics, social, and intellectual history. Prerequisite: History 430a,b or consent of instructor.

**513-4 Problems in Ancient History.** For graduate students who have had one or more undergraduate courses in ancient history. Consists primarily in analyzing and discussing selected source material in translation.

**514-3 Studies in Asian History.** Pro-seminar course on select topics in Asian History. Prerequisite: consent of faculty.

**515-3 Current United States History and Problems.** A content and research course dealing with contemporary American affairs. Consists of textbook assignments and outside readings. Prerequisite: proper background and consent of instructor.

**519-4 The Age of Jefferson.** Rise and development of Jeffersonian Democracy, 1790-1824, with emphasis upon social, economic, and political programs of Republicans and Federalists; the clash of mercantile and agrarian interests.

**530-4 City-States of the Italian Renaissance.** An intensive study of selected city-states in Italy during the period from the late 13th century to the end of the 15th century. The political and economic developments, and the "culture" of the Italian Renaissance.

**534-4 Eighteenth-Century England.** Introductory lectures and discussion of aspects of 18th century English political, constitutional, economic, and social history.

**540-4 American Reform Movements.** The dynamics of American reform movements, their similarities and differences, their triumphs and failures, and the spirit which motivates them and distinguishes them from attempts to change the direction of other societies. Includes both lectures and discussion based on books pertinent to each reform era. Prerequisite: U.S. survey.

**553-3 New Viewpoints in American History.** New interpretations and recent developments in American history. Prerequisite: GSB 300.

**554-4 Problems in 19th Century America.** Lectures, discussions, and readings on significant issues and interpretations of 19th century America.

**575-9 (3,3,3) Studies in Latin American History.** A content and research course concerning selected studies in Latin American history.

**599-1 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree.

### Instructional Materials

**400-2 Library Research Methods.** Introduction to the use of library materials in graduate research. Includes a survey of scholarly publishing and the use of reference works in various subjects.

**403-4 School Library Functions and Management.** Effective library services in relation to the educational objectives of elementary and secondary school programs: organization, supervision, finance, housing, equipment, standards, and evaluation.

**405-4 Library Materials for Children.** Study of the aids, methods, and criteria for the selection and use of books and other instructional materials for children in the elementary schools.

**406-4 Library Materials for Adolescents.** A study of the aids, methods, and criteria for the selection and use of books and other instructional materials for students in the high school.

**407-4 Basic Reference Sources.** Evaluation, selection, and the use of reference sources for elementary and secondary school libraries. Principles and methods of reference service.

**410-4 Public Library Administration.** The administration of municipal, county, and regional libraries, both large and small, with emphasis on meeting the needs of different types of communities.

**413-4 Cataloging of Non-Book Materials.** The classification, cataloging preparation and circulation of all types of non-book material such as films, filmstrips, slides, realia, etc. Prerequisite: 308.

**417-4 Audio-Visual Methods in Education.** Selection and utilization of instructional materials in the learning environment, elementary through adult levels. Audio and visual materials and procedures are emphasized with some attention given to bibliographies and reference books for teachers.

**420-4 School Library Activities and Practice.** Supervised practice and observa-



tion integrated with instruction in the typical activities of school librarianship; storytelling, publicity, developing units of library instruction, and work with students. Prerequisites: 308, 403, 405, or 406 and 407.

**422-4 Book Selection.** Principles for selection and evaluation; use of standard selection aids, reviews, and annotations; policies governing the building and maintenance of a collection.

**440-2 Photography for Teachers.** Techniques of picture-taking and the preparation of color slides of community resources for use in classroom instruction and for school public relations.

**445-4 Preparation of Teacher-Made Audio-Visual Materials.** Laboratory practice in the preparation of bulletin boards, opaque materials, models, slides, recordings, felt-boards, and other graphic materials. Prerequisite: 417 or consent of instructor.

**457-4 Radio and Television in the Classroom.** Educational programs and their value to the teacher in the classroom. Sample tapes of radio programs and kinescopes are used.

**458-4 The Medium of the Motion Picture.** A study of the full range of expression by motion pictures including documentary, theatrical, educational, experimental, and industrial films. Representative films are screened.

**470-4 Programmed Instruction.** The principles and practice of writing both linear and intrinsic types of programmed instruction with emphasis on pictorial and performance branches. Individual experience in planning and producing programs.

**510-4 Mass Communications in Education.** The use of mass media in the classroom. Includes radio, TV, comic books, newspapers, magazines, motion pictures.

**514-4 Survey of Research and Development in Instructional Materials.** Advanced readings in research in instructional materials and the practical application of findings. Prerequisites: 405, 406, 417 or consent of instructor.

**530-4 History of Books and Libraries.** The evolution of the printed book and the rise and development of modern libraries.

**546-4 Integration of Audio-Visual Materials in the Classroom.** Selection of materials on the basis of curricular needs. Techniques of evaluating each type of audio-visual material for use in the classroom. Structured for both the audio-visual administrator and the class room teacher. The principles and practices of integrating audio-visual materials into the curriculum; the problems, annotations, and classification of evaluated materials. Prerequisites: 417, consent of instructor.

**547-4 School Film and Filmstrip Production.** Simplified techniques for teachers and audio-visual coordinators who may need to produce school-made films and filmstrips to meet local school problems. Prerequisites: 417 and 440 or consent of instructor.

**548-4 Supervision and Administration of an Audio-Visual Program.** Provides professional information and training for persons with administrative responsibilities at the district or unit level. Primarily designed for directors of Instructional Materials and Audio-Visual Centers. Prerequisite: 417 or consent of instructor.

**549-4 Visual Learning.** Learning from pictures in the classroom, the design of still and moving pictures, pictures used in testing perception, and the place of pictures in advertising and communication. Prerequisite: consent of instructor.

**554-4 Administration of an Instructional Materials Center.** Based on the concept of a single agency in the school that encompasses all forms of instructional materials. Designed to further the training of specialists in the supervision and administration of integrated audio-visual and library programs. Prerequisite: 403.

**560-4 Seminar in Instructional Materials.** Designed to give advanced graduate students an opportunity to investigate and discuss topics in instructional materials before the seminar group. Topics selected depend on background and interest of individuals. Prerequisite: consent of instructor.

## Management

**475-4 Budgeting and Systems.** Budgeting and system as aids in coordinating and directing business operation. Prerequisites: 320, Accounting 251c.

### **Management Operating Systems**

**580-4 Management Systems.** Design and usage of comprehensive, computer-based systems for managerial decision-making and control. A basic understanding of a computer programming language is included. Restricted to Master of Business Administration students.

**583-4 Advanced Management Systems.** Development of ability to think clearly about management systems. Learning to view simultaneously the overall business organization as a system, and the sub-systems of information-flow which are elements of the business system. Bridging of the gap between the ideal management system and the operational, practical, real-world business systems with its variety of sub-systems a basis for drawing conclusions, formulating alternative courses of action, and making decisions. Prerequisites: 580, Quantitative Methods 510, 511.

**588-4 Seminar in Management Systems.** Broadens and deepens understanding of the application of management science to business. Brings together computer-supported quantitative methods and considers ways of making these tools available for business decisions. Problems are taken from such areas as distribution, production, inventory, finance, budgeting, managerial accounting, and personnel. Prerequisites: 583, Quantitative Methods 513.

### **Marketing**

**452-4 Physical Distribution Management.** Spatial relationships of plant capacity and storage facilities and their connecting link, transportation. Prerequisite: 341 or graduate standing.

**470-4 Marketing Research.** A development of the concepts necessary for understanding and performing research in the area of marketing. The basic procedures and theories underlying research are investigated, evaluated, and applied to marketing decision making. Such areas as market, advertising, and sales research are given consideration. Prerequisites: 371, Quantitative Methods 211.

**471-4 Advertising Policy and Management.** Advertising strategy, planning, research and its relationship to other marketing tools. Emphasis is placed on problems faced by marketing and business executives in administering the advertising effort. Prerequisite: 470.

**472-4 Sales Policy and Management.** Content centers around the organization and operation functions of salesmen and sales managers (including all echelons from the general marketing managers to the territory sales men.) Problem areas such as sales department organization, recruiting salesmen, motivating and supervising salesmen, sales territory design and coverage, and appraising salesmen's performance are included in the content of the course. Prerequisite: 470.

**473-4 Advanced Marketing Management.** An advanced course in managerial marketing which is designed as a capstone course for marketing majors. The purpose is to develop the student's ability to identify marketing problems, investigate alternative solutions, and render decisions. Prerequisite: senior standing. This course should be the final course taken by the undergraduate marketing major.

**570-4 Marketing Concepts.** An introductory course designed to explore the place of marketing in individual businesses and in the economy. Emphasis on marketing functions, institutions, and current thought. Prerequisite: Master of Business Administration students only.

**573-4 Marketing Policies.** Primary emphasis on managerial aspects of the marketing function, including product, research, promotion, pricing, and channel strategies. Relationships to other business functions, to the legal environment, and to information technology as used by marketing managers. Quantitative methods of decision-making as applied to marketing. Prerequisite: 570.

**578-4 Seminar in Marketing.** Through the study of selected cases and other methods, the student explores and analyzes current marketing problems and contemporary developments in marketing practices and appraises and evaluates the significance of these developments. Prerequisite: 573.



## Mathematics

**400-3 History of Mathematics.** An introduction to the development of major mathematical concepts. Particular attention given to the evolution of the abstract concept of space, to the evolution of abstract algebra, to the evolution of the function concept, and to changes in the concept of rigor in the development of mathematics from 600 B.C. Prerequisite: 150b.

**410-16 (4,4,4,4) Statistical Analysis.** For students in fields using statistical methods but who are not required to take calculus. Includes (a) elements of probability, estimation, and testing hypotheses; (b) the general linear model (multiple linear regression, analysis of variance, analysis of covariance) and nonparametric statistics; (c) design of experiments; (d) sample survey techniques. May not be used to satisfy requirements for a mathematics concentration. 3 lectures and 2 laboratory hours per week. Must be taken in either a,b,c,d or a,b,d,c sequence. Prerequisite: GSD 114a.

**413-4 Solid Analytic Geometry.** An algebraic study of equations of the first and second degree in three variables, with applications to geometry. Systems of planes; equations of lines in symmetric and parametric form. Spheres, cylinders, surfaces of revolution. Matrix algebra; real orthogonal and symmetric matrices. Coordinate transformations; orthogonal similarity. Quadratic forms and quadric surfaces; invariants; principal axes and planes. Prerequisite: 252b or consent of chairman.

**415-4 Non-Euclidean Geometry.** An introduction to hyperbolic and elliptic plane geometry and trigonometry. Emphasis given to the nature and significance of geometry and the historical background of non-Euclidean geometry. Prerequisite: 252a.

**420-6 (3,3) Fundamental Concepts of Algebra.** Introduces abstract algebraic structures including groups, rings, fields, and vector spaces. Must be taken in a,b sequence. Prerequisite: 321.

**421-6 (3,3) Linear Algebra.** The theory of determinants and systems of linear equations; vector spaces, linear independence, bases, dimension; linear transformations, change of base, similarity; quadratic and Hermitian forms, orthogonal, and unitary transformations; triangular and diagonal form; eigenvalues and eigenvectors; normal matrices, nilpotent and idempotent matrices, the spectral theorem. Must be taken in a,b sequence. Prerequisite: 321.

**425-3 Theory of Numbers.** Topics in elementary number theory, including properties of integers and prime numbers, divisibility. Diophantine equations, and congruence of numbers. Prerequisite: 252b.

**426-6 (3,3) Mathematical Logic.** (Same as Philosophy 426.) (a) Martix and set theoretic development of the propositional calculus, many-valued logics, modal logics. Completion and consistency proofs for the propositional calculus. (b) A formal development of the predicate calculus and related problems. Must be taken in a,b sequence. Prerequisite: 420a or consent of instructor.

**430-4 Projective Geometry.** Introduction to the fundamental concepts of projective geometry. Topics usually include the study of conics, polar systems of conics, homogeneous coordinates, cross-ratio, harmonic sets, duality, projectivities, and involutions. Prerequisite: 321 or consent of instructor.

**433-3 Theory of Point Sets.** General properties of sets; topology of plane sets; closed sets and open sets in metric spaces, homeomorphisms and continuous mappings, connectedness. Prerequisite: 252b and 6 credits in courses numbered 300 or higher, or consent of instructor.

**440-2 to 4<sup>1</sup> Modern Algebra for Teachers.** An introduction to algebra as a logical system, including groups, rings, and fields. Prerequisite: consent of instructor.

**442-2 to 4<sup>1</sup> Survey of Geometry.** A survey of geometry, including projective geometry, topology, etc. Prerequisite: consent of instructor.

**445-2 to 4<sup>1</sup> Fundamental Concepts of Calculus.** A careful study of the basic concepts of calculus, offered as part of the special graduate program for secondary school teachers. Prerequisite: consent of instructor.

**446-2 to 10 Structure of Mathematics.** A course to assist experienced teachers in extending their understanding of mathematics. (a) Elementary School

<sup>1</sup> These courses are open to candidates for the Master of Science in Education degree in mathematics, to National Science Foundation Institute participants, and to those who have received the consent of the chairman of mathematics or the director of the institute.



Mathematics; (b) Junior High School Mathematics. Does not count credit toward a mathematics concentration. Prerequisites: experience in teaching, consent of instructor.

**447-4 The Structure of Secondary School Mathematics.** A course to assist experienced secondary school teachers in extending their understanding of mathematics. Does not count toward a mathematics concentration. Prerequisites: experience in secondary teaching, consent of instructor.

**452-9 (3,3,3) Advanced Calculus.** Fundamental concepts of analysis: limits, continuity, differentiation, and integration. Major topics include partial differentiation, vector analysis, Riemann-Stieltjes integrals, multiple integrals, infinite series, improper integrals, uniform convergence. Fourier series, and line and surface integrals. Must be taken in a,b,c sequence. Prerequisite: 252b.

**455-9 (3,3,3) Advanced Mathematics for the Physical Sciences.** Introduction to various topics such as complex variable theory with applications, operational calculus (Laplace and other transforms), vector field theory, and partial differential equations. May be taken separately or in any sequence. Prerequisite to (a): 225b; to (b) or (c): 305a.

**458-6 (3,3) Finite Mathematics.** An introduction to topics in finite mathematics such as logic, sets, probability, linear algebra, and Markov chains. Designed for students preparing for high school teaching and for advanced students in the behavioral sciences. Prerequisite: 252a or consent of instructor.

**460-4 Modern Geometry.** Advanced topics in Euclidean geometry by the synthetic method. Topics include the nine-point circle, Simson line, theorems of Ceva and Menelaus, coaxal circles, harmonic section, poles and polars, similitude, and inversion. Prerequisite: 20 hours of college mathematics.

**472-9 (3,3,3) Computer Science.** An introduction to computing systems and the mathematics of computation. (a) Computer organization, design, and programming systems. (b) Linear system problems, linear programming and network problems. (c) Digital simulation problems, linear and other probabilistic problems. Prerequisites: 225, 305a, 321.

**475-9 (3,3,3) Numerical Analysis.** Introduction to approximation methods including finite differences and interpolation; numerical differentiation and quadrature; least squares approximation; numerical solution of linear and non-linear systems; numerical integration of systems of ordinary and partial differential equations. Emphasis upon error analysis throughout. Must be taken in a,b,c sequence. Prerequisites: 305a or 252b and consent of instructor.

**480-10 (4,3,3) Probability.** Introduction to probability theory. Includes the algebra of probabilities; discrete and continuous distributions, limit theorems, generating functions, and some elements of stochastic processes. Must be taken in a,b,c sequence. Prerequisite: 252b.

**483-9 (3,3,3) Introduction to Mathematical Statistics.** A mathematical development of the elements of statistical theory. (a) Probability distributions, generating functions, and limit theorems. (b) Statistical inference; estimation, tests of hypotheses, general linear hypotheses. (c) Design of experiments and special topics—a mathematical model approach. Must be taken in a,b,c sequence. Prerequisite: 252b.

**501-9 (3,3,3) Real Variables.** A basic course in mathematical analysis. (a,b) The real number system; fundamental theorems in limits and continuity; open, closed, compact, and connected sets in Euclidean and metric spaces; the Riemann and the Riemann-Stieltjes integrals and functions of bounded variation; infinite series; uniform continuity; uniform convergence of series and improper integrals; arcs and curves; implicit function theorem; multiple integrals. (c) The general theory of measure and integration from an abstract point of view. Additive classes of sets, Borel sets, measurability, measure and outer measure; integrable functions, convergence theorems; absolute continuity and the Radon-Nikodym theorem; Fubini's theorem. Must be taken in a,b,c sequence. Prerequisite: 452c.

**505-9 (3,3,3) Theory of Ordinary Differential Equations.** Existence and uniqueness theorems; general properties of solutions; linear systems; geometric theory of non-linear equations; stability and control theory; self-adjoint boundary problems; oscillation theorems. Must be taken in a,b,c sequence. Prerequisites: 321, 452.

**510-4 Foundations of Mathematics.** A critical survey of the logical basis of mathematical systems. Deductive processes, mathematical proof theory, axiomatics, nature of model systems, principles of theory construction, views concerning the nature of mathematics. Prerequisites: 252b or consent of instructor.



**520-9 (3,3,3) Modern Algebra.** Displays some of the richness of algebra when mathematical systems other than the traditional one based upon the real numbers are considered. Abstract theory of groups, rings, and fields, with particular attention to examples from permutation groups, matrices, vector spaces, and polynomial and other function spaces; rational numbers and fields, complex numbers, unique factorization, algebraic number fields. Must be taken in a,b,c sequence. Prerequisite: 420.

**530-3 to 6 Point Set Topology.** Topological spaces; denseness, category; open, closed sets, Borel sets; separation axioms; subspaces; continuity; lattice of topologies; countability axioms; connectedness, compactness, local properties; regularity to complete normality. Hilbert space, metrizable spaces; extension theorems; well-ordering; product spaces. Must be taken in a,b,c sequence. Prerequisite: 433 or 501b.

**536-3 Differential Geometry.** Curvature, torsion, the Frenet formulas, and intrinsic equations of curves in three-dimensional Euclidean space; applications to kinematics. Curves on a surface; first and second fundamental forms; normal sections and Meusnier's theorem; mean and total curvature. Prerequisite: 452c.

**540-4<sup>1</sup> Groups and Linear Transformations.** A study of groups with their connection with the movements of regular plane figures, matrices, vectors, determinants with their interpretation and use in analytic geometry, and ruler and compass constructions. Prerequisite: 440 or equivalent.

**545-4<sup>1</sup> Intermediate Analysis for High School Teachers.** A rigorous development of differentiation and integration of continuous real functions. Topics include sequences, series, limits, real continuous functions, integrable functions. Topics include sequences, series, limits, real continuous functions, integrable functions on a closed interval. Prerequisite: consent of instructor.

**550-1 to 10 Seminar.** Supervised study and preparation of reports on assigned topics. Reports presented for class discussion. (a) Algebra. (b) Geometry. (c) Analysis. (d) Probability and Statistics. (e) Mathematics Education. Prerequisite: consent of instructor.

**551-9 (3,3,3) Functional Analysis.** The theory of linear transformations between infinitely dimensional topological vector spaces, including Banach and Hilbert spaces, with various applications. The basic notion for the study is that of a functional or continuous scalar-valued linear transformation. Must be taken in a,b,c sequence. Prerequisites: 421, 452.

**555-9 (3,3,3) Complex Variables.** Classical and modern analytic function theory, including Cauchy-Riemann equations, Cauchy-Goursat theorem, conformal mapping, normal families, Riemann mapping theorem, calculus of residues, analytic continuation, Riemann surfaces, entire functions. Must be taken in a,b,c sequence. Prerequisite: 452c.

**575-9 (3,3,3) Advanced Topics in Numerical Analysis.** Selected topics, such as numerical solution of ordinary and partial differential equations, the algebraic eigen-value problem, matrix iterative analysis, error propagation for difference methods, rounding errors in algebraic processes, and algorithms. Prerequisites: 421, 455.

**580-9 (3,3,3) Mathematical Methods of Statistics.** A presentation of probability and statistical inference based on an axiomatic approach and employing advanced mathematical concepts. Topics include the theory of measure and integration in  $\mathbb{R}$ , foundations of probability, random variables and distributions in  $\mathbb{R}$ , sampling distributions, tests of hypotheses, theory of estimation. Must be taken in a,b,c sequence. Prerequisite: 452, 455.

**595-1 to 10 Special Project.** An individual project, including a written report. (a) Algebra; (b) Geometry; (c) Analysis; (d) Probability and Statistics; (e) Mathematics Education.

**599-1 to 9 Thesis.** Minimum of 5 hours to be counted toward the Master of Arts degree.

## Music

**401-3 Psycho-Physiology of Music.** The essential human capacities, their

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<sup>1</sup> These courses are open to candidates for the Master of Science in Education degree in mathematics, to National Science Foundation Institute participants, and to those who have received the consent of the chairman of mathematics or the director of the institute.

relationship to musical potentials and development as well as with the acoustical foundations of the world of music.

**411-9 (3,3,3) Music Literature.** (a) Symphonic: A study of the development of the symphony and the symphonic poem. (b) Choral: The literature of the larger vocal forms such as the cantata and oratorio. (c) Chamber Music: Study of chamber music from the Renaissance to the present.

**414-2 to 6 Collegium Musicum.** Practicum in the preparation and performance of music from early times to the classical period. Prerequisite: music major and/or consent of faculty.

**420-1 Music Education Practicum.** A shop-laboratory course dealing with the selection, adjustments, maintenance, and repair of musical instruments.

**440-2 to 4 Private Applied Music.**

- a. Violin
- b. Viola
- c. Violoncello
- d. String Bass
- e. Flute
- f. Oboe
- g. Clarinet
- h. Bassoon
- i. Saxophone
- j. Percussion
- k. Piano

- l. French Horn
- m. Trumpet
- n. Trombone
- o. Tuba
- p. Baritone
- q. Voice
- r. Organ
- s. Harpischord
- t. Harp
- u. Classical Guitar

Applied music for graduate credit is offered at the 400 and 500 levels in the areas listed above. Credit is given at 2 to 4 hours per quarter on each level. May be repeated each quarter of graduate study. Students with concentrations in performance usually take 4 hours per quarter at the 500 level; concentrations in music education and all secondary concentrations usually take 2 hours at the 400 level. Prerequisite for 440 and 540: audition or consent of instructor.

**442-6 (3,3) Contrapuntal Forms.** (a) Analysis and creative writing in the style of Palestrina and his contemporaries and the contrapuntal-harmonic technique of Bach. (b) Analysis and creative writing of the larger imitative forms. Must be taken in a,b sequence. Prerequisite: 205c.

**451-3 Teaching of General Classroom Music.**

**453-4 to 6 Workshop in Common Learnings in Music.** Emphasizes commonality of learning concepts and philosophies of music education as evidenced by Dalcroze, Suzuki, Orff, Kodaly, and others. Intensive work in each of these areas and in-depth laboratory experiences. Recognized authorities in each of these areas serve as consultants.

**455-2 to 6 Elementary Music Education Workshop.**

**461-6 (3,3) Teaching Techniques and Materials for the Beginning and Intermediate Levels.** Designed to meet the needs of applied students in which the problems of private studio teaching and college level teaching are discussed.

**465-3 Development and Teaching of Strings.** Place and function of string education in the elementary and secondary schools. Techniques of heterogeneous and homogeneous string teaching. Developing and sustaining interest in the string program. Resource aids. Prerequisite: senior standing.

**481-2 to 6 Readings in Music Theory.**

**482-2 to 6 Readings in Music History and Literature.**

**483-2 to 6 Readings in Music Education.**

**499-1 to 3 Independent Study.** The capable student engages in original investigations with faculty specialists. May be repeated for credit. Prerequisite: consent of instructor.

**501-3 Introduction to Graduate Study in Music.** Basic bibliographical and historical research techniques in music theory, literature, and education.

**502-9 (3,3,3) History and Analysis of Musical Style.** Analysis of representative works chosen from the Baroque, Classical, Romantic, and Modern eras.

**515-3 Twentieth Century Literature.** Survey of the life and works of Beethoven; emphasis upon the evaluation of his musical styles through analysis of representative works.

**518-3 Pedagogy of Music Literature.** Principles of teaching music literature and music appreciation courses at the college level.

**519-9 (3,3,3) Vocal Pedagogy and Literature.** (a) A study of vocal pedagogy with emphasis on the techniques and materials to be used with beginning voice students. (b) Advanced vocal pedagogy with related study of the history of singing and of the teaching of singing. (c) A survey of literature for solo voice and its relation to vocal pedagogy.



- 520-3 American Music.** The development of music in America from colonial days to present.
- 522-3 Seminar: Music History and Literature.** Advanced study in special periods of music history-literature.
- 535-3 Contemporary Idioms.** Techniques of composition developed during the 20th century by composers of Europe and America.
- 540-2 to 4 Private Applied Music.** (See 440.)
- 550-8 (4,4) Organization and Administration of the Music Education Program.**
- 553-6 (3,3) Seminar in Materials and Techniques.**
- 556-3 Advanced Conducting.** Problems in score reading and interpretation. Laboratory conducting of larger ensembles.
- 560-2 to 6 Seminar in Music Education.** Trends, current practices, philosophies of music education.
- 566-1 Instrumental Ensemble.** Participation in a chamber or large ensemble for purposes of studying and performing literature in the field of the major instrument other than solo literature.
- 567-1 Vocal Ensemble.** Participation in a chamber or large ensemble for purposes of studying and performing literature in the field of the vocal music other than solo literature. Includes madrigal groups, choral ensembles, women's chorus, etc.
- 599-3 to 9 Thesis.**

### Personnel and Industrial Relations

- 450-4 Personnel Administration.** The functions of the personnel department in an organization; organization for personnel administration; factors affecting the efficiency of personnel; the managerial responsibility for effective personnel administration; personnel practices including recruitment, orientation, evaluation, transfer, promotion, dismissal, grievances, the personnel-centered approach contrasted to the task-centered approach. Case discussion and reports on selected topics assist in developing the varied responsibilities of the personnel function. Prerequisite: General Business Administration 340.
- 451-4 Labor Relations Law and Collective Bargaining.** An analysis of labor relations legislation and the complex interrelations of management, employees, and labor unions, as well as of collective bargaining contracts, their scope, enforceability, and significance to labor relations. Cases and reports are incorporated. Prerequisite: General Business Administration 340.
- 452-4 Advanced Problems in Personnel Administration.** Analysis of special problems of personnel administration in periods of rapid technological change. Case problems and reports are used to emphasize such pertinent areas as wage and salary administration, automation, unemployment, training, productivity, and the administration of technical and scientific personnel. Prerequisite: 450.
- 453-4 Advanced Problems in Industrial Relations.** Exploration and development of labor, management, and government relations. A study of conflict and harmony between them as individual units and as a totality. Emphasis is placed on the internal grievance procedure and the roles of the National Labor Relations Board, Federal Mediation and Conciliation Service, arbitrators, and other tripartite bodies in industrial relations. Cases and reports are incorporated. Prerequisite: 451.

### Philosophy

- 430-4 Symbolic Logic.** Use of symbols as tools for analysis and deduction. Study of truth tables, Boolean expansions, propositional calculus and quantifiers, logic of relations, and their functions in logic systems.
- 443-4 Philosophy of History.** Classical and contemporary reflections on the nature of history and historical knowledge as the basis for dealing with the humanities.
- 484-12 (4,4,4) History of Western Political Theory.** (a) Ancient and Medieval. (b) Renaissance and Early Modern. (c) Recent. Any part may be taken alone.
- 490-2 to 12 Special Problems.** Seminar for qualified seniors and graduate students to pursue specific topics in depth. Varied content. Prerequisite: consent of instructor.

**495-2 to 12 Independent Readings.** Independent study in philosophy on a tutorial basis. Prerequisite: consent of instructor and chairman.

### Physical Education

**402-4 Organization and Administration of Intramural and Extramural Activities.** Planning intramural programs of sports; planning and coordinating extramural activities commonly associated with physical education.

**404-2 Workshop in Dance for In-Service Teachers.** History of dance, values of dance, interpretation of music for dance, teaching techniques and facilities, and fundamental dance movements leading to knowledge and command of dance skills.

**420-4 Physiological Effects of Motor Activity.** The general physiological effects of motor activity upon the structure and function of body organs; specific effect of exercise on the muscular system.

**427-4 Physical Education and Recreation for the Handicapped.** Characteristics of handicapped children as they affect the feasibility of physical education and recreation activities. Values of specific activities for certain types of children, and methods and materials for teaching physical education and recreation skills. Emphasis on activities suitable to classroom, home, and institution. Prerequisite: Counselor Education 305.

**475-2 to 4 Individual Research.** The selection, investigation, and writing of a research paper under the supervision of instructor.

**476-2 to 4 Teaching Athletic Skills.** Modern techniques of teaching skills, conditioning, and strategies; for prospective physical education teachers and coaches.

**500-4 Techniques of Research.** Critical analysis of research literature; study of research methods and planning research studies. Prerequisite: 400 or concomitant registration in 400.

**501-4 Curriculum in Physical Education.** Principles and procedures for curriculum construction and revision; criteria for selecting activities and judging outcomes and the place of the physical education course of study within the total curriculum.

**502-4 Foundations of Motor Skills.** Application of physiological, kinesiological, and mechanical principles to intelligent control of large-muscle activities. Recommended background: a course in kinesiology.

**503-4 Seminar in Physical Education.** The course content and its procedures center around group discussions of controversial issues that currently exist in physical education and provide opportunities for practice in seeking unbiased solutions to professional problems.

**504-4 Problems in Physical Education.** Planning, conducting, and reporting original research studies. Prerequisite: consent of instructor.

**509-4 Supervision of Health and Physical Education.** The functions of supervision in physical and health education; basic principles and methods of supervision. Techniques and methods for increasing the effectiveness of the program at the elementary and high school levels.

**525-4 Readings in Physical Education.** Supervised reading in selected subjects. Open only to last quarter seniors and graduate students. Prerequisite: consent of instructor and faculty chairman.

### Physics

**404-3 Introduction to Statistical Mechanics.** A brief treatment of the kinetic theory of gases; introduction to phase spaces and ensemble theory. Shows the connection between mechanical and thermodynamic concepts. Obtains a statistical interpretation of thermodynamic processes. Prerequisite: 301, 304 or consent of instructor.

**415-12 (4,4,4) Modern Physics.** Elements of wave mechanics, atomic and nuclear physics, fundamental particles, and relativity. Must be taken in a,b,c sequence. Prerequisites: 300, 9 hours of mathematics numbered 300 or above.

**418-1 to 4 Modern Physics Laboratory.** Advanced laboratory work with pulsed and continuous lasers and optical detectors, nuclear magnetic resonance, nuclear spectroscopy, vacuum techniques, mass and beta spectroscopy, and semiconductor physics.



**420-2 to 5 Special Projects.** Each student is assigned to a definite investigative topic. Adapted to advanced undergraduate students. Prerequisites: 301, 305.

**435-3 Plasma Physics.** Basic equations and conservation laws; first order orbit theory with applications to static and dynamic problems; small amplitude plasma waves; hydromagnetic shocks; collision effects; diffusion across a magnetic field; stability; coupling of plasmas and radiation. Prerequisite: 305.

**445-8 (4,4) X-Ray Crystallography. (a)** Symmetry elements, development of space groups, reciprocal space, geometrical theory of diffraction, determination of lattice parameters, Fourier representations of periodic structure. **(b)** Production of x-rays, kinematical theory of x-ray diffraction, diffraction techniques, factors affecting the intensity of reflections, extinction contrast methods, introduction to the dynamical theory. Must be taken in a,b sequence. Prerequisite: 300.

**450-3 Introduction to Solid-State Physics.** A study of the fundamentals of solid-state physics including classification of solids, interatomic and intermolecular forces, lattice energies, specific heats, lattice dynamics, free electron theory of metals, lattice defects, color centers, luminescence, magnetic materials, radiation damage, transport in ionic crystals. Fermi-Dirac statistics, Fermi distribution, and semiconductors. Prerequisites: 305, 415a; 304 or consent of instructor.

**510-9 (3,3,3) Classical Mechanics.** Variational principles and Lagrange's equations; rigid body motion; special relativity; canonical equations, small oscillations including non-linear problems; perturbation methods; classical theory of fields. Prerequisite: 301.

**530-9 (3,3,3) Electromagnetic Theory.** Maxwell's Formalism of classical electromagnetism, application of electrostatics, magnetostatics, electrodynamics, and radiation problems. Prerequisite: 305.

**531-9 (3,3,3) Quantum Mechanics.** Wave mechanics, matrix mechanics, transformation theory of quantum mechanics; angular momentum, perturbation theory, scattering theory. Prerequisites: 415, Mathematics 407 or consent of instructor.

**540-3 Nuclear Physics.** General nuclear properties, two body problems, nuclear forces, discussion of various models, reactions, and radioactive decay. Prerequisite: 415.

**560-3 Statistical Mechanics.** Classical statistical mechanics, ensemble theory, quantum statistical mechanics with applications. Prerequisites: 404, 415.

**570-3 Solid State Physics.** Basic theory of the solid state including diamagnetism, ferromagnetism, paramagnetism, band theory, semiconductor theory, and superconductivity. Prerequisites: 415a,b, 450.

**575-1 to 4 Graduate Seminar.** Lectures on special topics to be given when a demand arises. Prerequisite: consent of instructor.

**580-3 to 6 Selected Topics in Physics.** Topics of special interest. Prerequisite: consent of instructor.

**590-1 to 9 Research in Physics (Thesis).** 1-5 hours each quarter. Prerequisite: consent of faculty.

## Production

**460-4 Production Management.** Analysis of the basic functions of manufacturing films. Student's work on a project of their choice in conjunction with lectures and class discussions. Blueprint reading, equipment and tools, plant layout, product flow, materials handling, quality control, cost control, production control, methods engineering, product engineering, inventory control, the use of PERT, and financial concepts as related to production management. Several plant visits. Prerequisite: General Business Administration 340.

**461-4 Methods Design and Work Measurement.** Design of work systems, methods, and techniques employed in the measurement of work. Emphasizes current philosophy underlying improvement of work methods and procedures used to measure work performed. Covers four major areas: methods design, standardizing the operation, work measurement, and training the operator. A number of projects correlating with the course material are assigned. Prerequisite: 460.

**462-4 Production Planning and Control.** Analyzes and describes the recurrent problems of managing the flow of materials, services, and information pro-



duced in response to changes in market demand. Emphasizes the top-level decisions necessary to plan and control operations so that customers are served on time and penalty costs are minimized, as well as the decisions made by middle and first line managers in regard to scheduling and controlling, purchasing, production, and distribution. Selected decision-making techniques are analyzed and evaluated from the production manager's point of view. Prerequisite: 460.

**463-4 Advanced Production Management.** Examines the operating decisions that confront the managerial and supervisory production personnel of large, medium, and small scale manufacturing firms using a variety of production processes. Emphasizes decision-making leading to the solution of production operating problems, and to the formulation of plans of action. Assigned cases provide a view of the types of decisions involved in planning, organizing, coordinating, integrating, and controlling resources so that production goals may be realized. Prerequisites: 460, 461, 462.

### **Psychology**

**404-4 Theories of Perception.** An examination of the different theories concerned with an organism's sensory contact with his environment. Physiological, social, and organizational theories of perception are considered. Prerequisite: 312 or consent of instructor.

**406-4 Learning Processes.** Processes by which individual behavior is changed, using procedures developed in the learning laboratory. Introduction to major concepts and data of learning. Prerequisite: 311 or consent of instructor.

**407-4 Theories of Learning.** A consideration of the major contemporary learning theories and their relation to experimental data. Prerequisite: 406 or consent of instructor.

**408-4 Theories of Motivation.** An examination of instinct theories, biological drives, emotions, social motives, and psychodynamic theories as they contribute to a comprehensive psychology of motivation. Prerequisite: 313 or consent of instructor.

**409-4 History and Systems.** Study of the important antecedents of contemporary scientific psychology. Considers issues, conceptual developments, and research advances, and presents the major schools and systems. Prerequisite: signed consent of psychology adviser.

**420-4 Experimental Analysis of Behavior.** Examination of the principles of respondent and operant conditioning in human and animal behavior. Lecture and laboratory. Prerequisite: 201c.

**421-4 Psychological Tests and Measurements.** Principles of psychological measurement, including errors of measurement, techniques for estimating reliability and validity, techniques of test construction, and problems in assessment and prediction. The laboratory, includes the use of selected instruments. Lecture and laboratory. Prerequisite: 211b, consent of instructor.

**431-4 Psychopathology.** Classification, description, etiology, and treatment of the disorders of personality organization and behavioral integration. Observations in a state mental hospital setting. Prerequisite: 305 or consent of instructor.

**432-4 Mental Hygiene.**

**440-4 Theories of Personality.** A review and critical evaluation of major personality theories and their supporting evidence. Prerequisite: 305 or consent of instructor.

**451-4 Advanced Child Psychology.** An examination of the concepts, methods, and problems of human development with consideration of both its psychological and psychosocial aspects. Prerequisite: 301 or 303 or consent of instructor.

**461-4 Advanced Social Psychology.** Examines current areas of interest in the study of social behavior: language behavior, communication, social influence, attitude change, interpersonal perception, etc. Emphasis is on the individual in the social context. Prerequisite: 307 or consent of instructor.

**465-4 Group Dynamics and Individual Behavior.** Examination of research and theory in the area of small-group interaction. Examines such topics as group structure and function, group problem-solving, leadership, etc. Prerequisite: 307 or consent of instructor.

**471-4 Work Methods and Measurement.** Analysis and evaluation of jobs and

the measurement of work performances by the use of standard time tables. Prerequisite: 320 or consent of instructor.

**473-4 Personnel Psychology.** Psychological methods in selection, placement, evaluation, and criterion development. Emphasis on principles and techniques with some examples of application in decision-making in business and industry. Prerequisite: 320 or consent of instructor.

**474-4 Psychology of Employee Relations.** A study of job satisfaction and morale, psychological aspects of labor relations, industrial counseling, interviewing methods, human relations, and social and organizational variables as they affect psychological climate in employee relations. Prerequisite: 320 or consent of instructor.

**479-4 Psychology of Industrial Conflict.** Consideration of social and psychological factors underlying controversies between workers and management. Prerequisite: 320 or consent of instructor.

**490-1 to 8 Independent Projects.** Independent readings and projects in psychology. Prerequisite: consent of instructor and chairman.

**495-1 to 18 Seminar: Selected Topics.** Varied content. To be offered from time to time as need exists and as faculty interest and time permit. Prerequisite: consent of chairman.

**501-12 (4,4,4) Proseminar in General Psychology.** Basic conceptual and methodological problems in the study of behavior. (a) History and systems of psychology, philosophy of science, scientific methodology, behavior theory. (b) Personality and individual differences, new conceptual and methodological developments and trends. Must be taken in a,b,c sequence. Prerequisite: consent of instructor. Open to students in other areas by consent of chairman.

**512-4 Sensory Processes.** A study of the structure and functions of the sense organs. Emphasis on the psychological data which describe the function of these organs. Lecture and laboratory. Prerequisite: consent of instructor.

**514-8 (4,4) Physiological Psychology.** Study of neural and endocrine mechanisms underlying behavioral processes. Lecture and laboratory. Prerequisite: 314 or consent of instructor.

**520-4 Research Design and Inference I.** Study of elements of probability, design, and analysis of simple experiments including t and F tests; selected non-parametric tests and multiple regression analysis. Prerequisite: 211b or Counselor Education 420.

**521-4 Research Design and Inference II.** Design and analysis of factorial experiments including analysis of variance models, analysis of covariance, and of Latin square design. Prerequisite: 520.

**522-4 Research Design and Inference III.** Advanced design and analysis of psychological experiments. Analysis of variance in complex designs, analysis of covariance, and trend analysis. Prerequisite: 521.

**530-4 Personality Theory and Dynamics.** Intensive treatment and critical analysis of several representative approaches to personality. Consideration also of important personality concepts common to most theoretical approaches. Prerequisite: consent of instructor.

**531-2 to 4 Advanced Psychopathology.** Consideration of special topics, including psychological theories of the nature and etiology of human pathology, assessment of pathology, and institutional care and treatment. Includes extensive field experience in a mental hospital setting. Prerequisites: 530, 541, 541b, consent of instructor.

**537-4 Counseling and Psychotherapy.** Systematic presentation of major approaches to counseling and psychotherapy. Consideration of salient aspects of the therapeutic situation and of the process and nature of changes during psychotherapy. Critical evaluation of both theory and practice. Consideration of research findings and problems. Prerequisite: consent of instructor.

**541-6 to 8 (4, 2 to 4) Psychodiagnostics I.** Introduction to clinical psychology with attention to the function and clinical use of individual intelligence tests. Theories of intelligence and related research. Age scales with emphasis on infant and child testing. Point scales and tests of deterioration with emphasis on child and adult testing. Lecture and practicum. Prerequisites: 520, consent of instructor.

**543-8 (4,4) Psychodiagnostics II.** Basic theory and assumptions underlying projective methods. Use of projective techniques as measures of personality and as tools for clinical diagnosis and research. (a) Thematic projective techniques. (b) Rorschach and Bender-Gestalt. Lecture and practicum. Prerequisite: 541 or consent of instructor.



**552-4 Experimental Child Psychology.** Consideration of relationship of methodology to child theory, typical methodological procedures and problems specific to children, and representative research topics. Prerequisite: 451 or consent of instructor.

**556-2 Psychological Treatment of the Child.** Investigation of personality and behavior problems. Etiological factors and methods of treatment. Prerequisite: 451 or consent of instructor.

**561-4 Social Influence Processes.** Critical review of theoretical and empirical developments in the study of influence processes, attitude change, etc. Social and intrapersonal determinants are examined. Prerequisite: 461 or consent of instructor.

**564-4 Communication and Group Behavior.** Emphasis on language behavior and the psychological study of the communication process. Examines theories, methods, and research in these areas. Prerequisite: 471 or consent of instructor.

**571-4 Industrial Motivation and Morale.** A review of the factors which determine motivation and morale as well as their measurement and evaluation. Prerequisite: 320 or consent of instructor.

**590-1 to 16 Readings in Psychology.** Readings in selected topics in psychology under staff supervision. Prerequisite: consent of chairman.

**591-1 to 36 Research in Psychology.** Research under staff supervision in selected areas of psychology. Prerequisite: consent of chairman.

**593-1 to 18 Practicum in Psychology.** Practicum experience in a professional setting is offered under staff supervision in the following areas: (e) Clinical Psychology, (f) Counseling Psychology, (h) Industrial Psychology, (j) Child Psychology, (k) Community Health Psychology, (l) Teaching of Psychology, (s) School Psychology.

**598-2 Ethical and Professional Problems in Psychology.** Problems in the professional practice of psychology and in teaching and research. Professional ethics, relations to other professions and the public, organization and structure of the field, current trends. Prerequisite: major in psychology or consent of instructor.

**599-1 to 9 Thesis.**

### Quantitative Methods

**510-4 Statistical Analysis for Decision-Making.** Statistical techniques applicable to business including distributions of one variable, index numbers, time series, multivariate distributions. Introduction to probability, sampling, estimation with confidence intervals, tests of hypotheses, regression, and correlation. Restricted to Master of Business Administration students.

**511-4 Quantitative Methods for Decision-Making.** Modern mathematical techniques applicable to business problems. Set theory, finite mathematics, and calculus. Restricted to Master of Business Administration students.

**513-4 Deterministic Models in Decision-Making.** Matrix algebra, classical optimization techniques, linear problems, and model building. Prerequisites: 510, 511.

**518-4 Seminar in Probabilistic Models.** Application of modern mathematical theory to the solution of business models under conditions of uncertainty. Includes statistical inference, inventory models, queuing, and game theory. Analytical and simulation techniques are employed. Prerequisite: 513.

### Rehabilitation

**480-2 Introduction to Rehabilitation.** A survey of the philosophy, procedures and practices underlying the rehabilitation movement, including the history and legislation that have contributed to its rapid development.

**511-2 to 4 Vocational Developments and Occupational Choice.** The psychosocial meaning of work, vocational development and theory of occupational choice, and the analysis of the labor market now and in the future. Prerequisite: consent of instructor.

**519-2 Selection, Placement, and Follow-up.** A survey of current methods and criteria used in job development, selective placement, and follow-up of handicapped and deprived individuals. Prerequisite: consent of instructor.



**531-2 Vocational Appraisal.** Consideration of tests and procedures used in assessing the individual's functioning abilities and the meaning work has in achieving fulfillment, which also includes the requirements of the job for purposes of aligning the two. Prerequisite: 511 or consent of instructor.

**541-2 Medical Aspects of Rehabilitation.** A review of human systems, disfunctions leading to major diseases entities and injuries, and the implications for rehabilitation. Prerequisite: consent of instructor.

**561-2 Psycho-Social Aspects of Disability.** An examination of the socio-emotional impact of traumatic injury or chronic illness (on human functioning) and its role in the rehabilitation process. Prerequisites: 421, consent of instructor.

**580-1 to 6 Practicum in Rehabilitation Services.** Familiarization with the functions of various rehabilitation settings through observation and participation in those activities—usually one day per week. Prerequisite: consent of instructor.

**585-1 to 16 Practicum in Rehabilitation Counseling.** Practice in developing counseling skills under close supervision in a variety of settings.

**589-0 to 12 Internship in Rehabilitation.** Full-time practice in a rehabilitation setting supervised by both agency personnel and university faculty. Prerequisites: 585, consent of department.

### Science and Technology

**400-3 Concepts of Classical Physics.** Classical physics from a phenomenological point of view and at a level which does not require a previous course in the calculus. Primarily for teachers of the physical sciences; subject matter is related to texts and materials available in the teachers' own schools.

**402-4 Modern Physics.** The development of physics in this century. For teachers of the physical sciences. Emphasis on the phenomena which led to the formulation of quantum theory in the twenties. A qualitative discussion of atomic and nuclear physics. Prerequisite: 400 or Physics 206.

**403-6 (3,3) Experiments and Techniques of Physics.** Conducting of experiments and consideration of equipment for teaching physics at the pre-college level. Lectures on experimental techniques.

**415-1 to 3 Instructional Innovation for the Physical Sciences.** A variety of subject matter with regard to its order of presentation in a course, the type of plausibility arguments most successful in a "derivation," the types of demonstrations most appropriate to the subject matter, and the relation of laboratory work to the lecture content.

### Secondary Education

**407-4 The Junior High School.** The place of the junior high school in the organizational pattern, with major emphasis upon the areas of organization, administration, and curriculum.

**440-3 to 4 Teaching Reading in High School.** A foundation course in how to teach reading in junior and senior high school: developmental and corrective reading programs; appraisal of reading abilities; methods and materials of instruction. Prerequisite: Counselor Education 305.

**480-4 Backgrounds of Urban Education.** (See also Educational Administration and Supervision 480 and Elementary Education 480.)

**487-4 Teaching the Natural Sciences in Secondary Schools.** Objectives of science education; instruction methods and techniques appropriate for teaching science; desirable equipment, audio-visual aids, and instructional material; development of a course outline and at least one instruction unit. Prerequisite: 315 or consent of instructor.

**488-4 Teaching Social Studies in Secondary Schools.** Objectives, scope, and sequence of curriculum; methods of teaching different courses and age groups; materials; and evaluation. Prerequisite: Counselor Education 305.

**505-4 Improvement of Reading Instruction.** (See Elementary Education 505.)

**507-2 to 4 Readings in Reading.** Independent reading; acquaintanceship with the literature and research in reading. Conference periods. Prerequisites: 505, consent of instructor.

**508-4 Seminar: Trends in Selected Areas in Secondary Schools.** For students

in advanced graduate work. Individual class members read basic bibliography related to secondary education and read widely about trends in the area of their own teaching fields. Prerequisites: completion of half or more of the work leading to a master's degree, consent of the instructor.

**509-4 to 8 Practicum in Reading.** For advanced students; teaching demonstrations and evaluations. Each student works with a group of reading disability cases. Prerequisites: 521a,b,c and consent of instructor.

**514-4 Organization and Administration of Reading Programs.** For reading specialists, principals, supervisors, consultants. Recent trends in elementary and high school reading programs, providing reading instruction for total school population, materials and equipment, in-service training, role of the reading specialist. Problems of class members are studied and discussed. Prerequisites: Educational Administration 505, 561.

**518-2 to 4 Supervision of Student Teachers.**

**521-12 (4,4,4) Diagnosis and Correction of Reading Disabilities.** Causes of reading difficulties; observation and interview procedures; standardized tests, instruments, and informal inventories; analysis techniques; experiences in preparing materials for corrective purposes. Each student diagnoses and treats a reading disability case under supervision. Prerequisites: 440 or 505 or concurrent registration with 505, and teaching experience.

**550-4 Core Curriculum in the Secondary School.** Designed to help students gain a functional understanding of the core concept. Techniques of selecting materials and the cooperative planning of units of work. Critical study of current practices in this field. Prerequisite: Educational Administration 460.

**562-4 The High School Curriculum.** Designed to permit students to work in groups on problems related to the high school curriculum. Such problems should originate in the schools where the students are or will be employed. The point of view maintained is that procedures should be very domestic. The instructor serves as a coordinator of activity; resource people are used freely. Prerequisite: one other graduate course in curriculum.

**564-4 High School Principalship.** Problems met specifically by the high school principal. Emphasizes his role in relation to guidance, curriculum, schedule-making, extracurricular activities, public relations, budgeting of time, etc. Prerequisites: Educational Administration 424, consent of instructor.

**567-12 (4,4,4) Teaching Competencies and Their Application.** Individualized and flexible group study of teaching behavior in competency centers. Skills are developed, applied, and tested in simulated or field settings.

**570-4 Extra-Class Activities.** Cocurricular activities of the junior and senior high school including intramural and interscholastic functions.

**575-2 to 4 Individual Research.** The selection, investigation, and writing of a research topic, under the personal supervision of a member of the departmental graduate staff, in one of the following areas: (a) Curriculum, (b) Supervision, (c) Language Arts, (d) Science, (e) Reading, (f) Social Studies, (g) Problems in Secondary Education, (h) Higher Education, (j) Junior College.

**591-4 Workshop in Current Problems in Secondary Education.** Designed primarily to help high school principals to work effectively and with the help of resource leadership on the most urgent problems confronting their schools. Discussion, reports, lectures, and final examination. Prerequisite: consent of instructor.

**596-5 to 9 Independent Investigation.** A field study required of each student working for the sixth-year professional certificate. The work should be done in the setting of a school system where the student is employed or where full cooperation is extended. The study involves selecting of the problem, survey of pertinent literature, recording of results, and appropriate interpretations and summarizations.

**597-1 to 3, 598-1 to 3, 599-1 to 3 Thesis.** Minimum of 5 hours to be counted toward a master's degree.

## Social Welfare

**481-4 Processes in Social Work.** Theory, rationale, and practice of casework, group work, social welfare organization, and the roles of supervision, administration, and research in relation to each. Case material study and discussion with field observation and practice. Prerequisite: 375 or consent of instructor.



**482-4 Social Work in Selected Agencies.** Study of representative literature on casework in family, psychiatric, medical, school, military, child welfare, and correctional settings, and others. Case material study and discussion with field observation and practice. Prerequisite: 481.

## Sociology

**405-4 Current Sociology.** A survey of important trends in contemporary social thought. Students read, report on, and evaluate content of leading sociological journals. Prerequisite: consent of instructor.

**406-4 Social Change.** Processes of social change in the modern world; culture lag and conflict of norms; individual and social problems arising from conflicting systems of social values and cultural norms. Prerequisite: GSB 201b or 301.

**412-4 Sociological Research.** Application of the scientific method to sociological problems. The role of theory. Principles of good research design, measurement, sampling and analysis. Prerequisite: graduate status or consent of instructor.

**424-4 Collective Behavior.** The behavior of people in large groups; collective interstimulation and emotions; crowds, audiences, and publics; mass stimuli and mass response. Prerequisite: 321 or 322, or consent of instructor.

**426-4 Social Factors in Behavior and Personality.** How group situations and values affect behavior and shape personality; development of concepts, role-concepts, attitudes, values; theories of motivation; self-concepts; conflicting social values in relation to individual motivation. Prerequisite: 321 or Psychology 305, or consent of instructor.

**427-4 Personality and Social Adjustment.** Basic mechanisms of adjustive behavior; concepts and criteria of personal integration and social adjustment; varieties of adjustive and non-adjustive behavior; theories of personal organization and disorganization; selected problems. Prerequisite: 321 or Psychology 305 or consent of instructor.

**435-4 Social Stratification.** A comparative study of social class systems, with emphasis on the American systems. Relationships of class position to behavior in family, religion, politics, etc. Prerequisite: GSB 201b or 301.

**438-4 Sociology of Occupations.** Natural history and institutional aspects of occupations in our society, cultural context of occupations in both primitive and modern society, preparation for jobs, human values in work, promotion and discharge, mobility, retirement. Prerequisite: GSB 201b or 301.

**450-4 Social Thought I: Before 1800.** The ideological basis of Western society. The classical foundations. Trends of thought from the Renaissance to the Enlightenment. Prerequisite: consent of instructor.

**451-4 Social Thought II: The Sociological Movement.** From Romanticism to Realism; rise and development of scientific social thought. Prerequisite: consent of instructor.

**453-4 Social Movements.** A sociological study of modern social movements; social and cultural backgrounds, forms of expression and organization; social structure of social movements, their role and function in modern society. Prerequisite: GSB 201b or 301.

**470c-4 Urban Planning.** (See Geography 470c.)

**472-4 Treatment and Prevention of Crime.** A survey of the correctional field covering probation, institutional treatment, and parole: their historic development, organizational structure, program content, and current problems. Prerequisite: 372 or consent of instructor.

**483-3 Current Problems in Corrections.** An exploration of contemporary problems in the control and treatment of sentenced offenders and a review of research trends in corrections. Prerequisites: 472, consent of instructor.

**484-4 Survey Course in Marriage Counseling.** Survey and analysis of the field of marriage counseling; assessment of current practices and techniques in terms of contemporary sociological theory. Prerequisites: GSB 341, consent of instructor.

**485-6 Community Programs for the Prevention of Juvenile Delinquency.** Analysis of delinquency prevention in community programs administered by the public schools, social welfare, governmental agencies. A study of the categories of juvenile delinquency is applied to a critique of existing programs and to the development of experimental programs. The roles of professional workers pertinent to such programs are delineated with special reference to the public school



administration, counselor, the social workers, the court, probation officers, and police. Prerequisite: consent of instructor.

**489a-3 The American Correctional System.** A survey of the correctional field covering probation, institutions, and parole; their historical development, organizational structure, program content, and current problems.

**489b-4 Probation, Classification, and Parole.** An introduction to the structure and function of those elements of the correctional process primarily concerned with the evaluation, treatment, and control of offenders with particular attention to the casework components of the process. Prerequisite: 481 or consent of instructor.

**501-4 Survey of Sociological Theory.** The development of sociology as a science of society, from synthetic philosophy to analytic sociology. Prerequisite: 451 or consent of instructor.

**504-4 Seminar in American Sociology.** A survey of development of American sociology from its beginnings in the late 19th century to the present. Prerequisite: 501 or consent of instructor.

**506-4 Seminar in Contemporary Sociological Theory.** An analysis of recent sociological theories, including a survey of current approaches to the construction and application of systematic theoretical models. Special attention is given to "structural-functional" analysis and to the theoretical adequacy of selected theory-oriented empirical research areas. Prerequisite: 15 hours of sociology or consent of instructor.

**519-4 Methodological Foundations of the Social Sciences.** Social science methodology; the nature of social facts and phenomena, the formation of concepts, the application of logic in the social sciences. Prerequisites: 407, and Philosophy 420 or consent of instructor.

**521-4 Seminar in Social Psychology.** Survey of theoretical systems; progress toward integrated body of behavioral theory. Prerequisite: 426.

**534-4 Seminar in Intergroup Relations.** Cross-cultural study of inter-ethnic and inter-faith relations, with special attention to conflict, accommodation, acculturation, and assimilation. Prerequisite: 15 hours of sociology or consent of instructor.

**538-4 Seminar in Industrial Sociology.** Selected aspects of industrial organization and related problems including such topics as functional and dysfunctional deviations from ideal bureaucracy, promotion policies, labor relations, job aptitudes, job satisfactions, and public relations. Prerequisites: 15 hours of sociology, consent of instructor.

**542-4 Seminar on the Family.** The family as a field of sociological study. Assessment of significant historical and contemporary writing. Prerequisite: 15 hours of sociology including 340, or consent of instructor.

**596-2 to 12 Readings in Sociology.** Supervised readings in selected subjects. Prerequisite: consent of instructor and chairman of faculty.

**599-2 to 9 Thesis.** Prerequisite: consent of chairman.

### Special Education

**410a-4 Problems and Characteristics of the Emotionally Disturbed Child.** Diagnosis, screening, classroom management, placement considerations, goals, and the effective use of ancillary services. Emphasis on the understanding of maladaptive behavior through principles of learning and behavior dynamics. Prerequisite: Psychology 301 or 303, or consent of instructor.

**410b-4 Problems and Characteristics of the Mentally Retarded Child.** Educationally significant characteristics including cognitive, emotional, and sociological considerations. Problems of definition, screening, diagnosis, classification systems, and classroom management are considered. Prerequisite: Counselor Education 305 or 414.

**410c-4 Problems and Characteristics of the Gifted Child.** Designed to help teachers in the identification of and programming for gifted and talented children. Prerequisite: Psychology 301 or 303 or consent of instructor.

**413a-4 Directed Observation of Emotionally Disturbed Children.** Student observation and participation in group and individual work with emotionally disturbed children. Often taken concurrently with 410a. Prerequisite: consent of instructor.

**413b-4 Directed Observation of the Educable Mentally Handicapped.** Student observation and participation in group and individual work with mentally



retarded children. Often taken concurrently with 410b. Prerequisite: consent of instructor.

**413c-4 Directed Observation of the Gifted.** Student observation and participation in group and individual work with gifted children. Often taken concurrently with 410c. Prerequisite: consent of instructor.

**414-4 The Exceptional Child.** Physical, mental, emotional, and social traits of all types of exceptional children. Effects of handicaps in learning situations. Methods of differentiation and techniques for rehabilitation. Individual case studies used; observations and field trips. Prerequisite: Psychology 301 or 303 or consent of instructor.

**420a-4 Methods and Materials in the Education of the Emotionally Disturbed.** Offered in conjunction with practice teaching. Methods and materials needed in teaching emotionally disturbed children in special education programs. Prerequisites: 410a, consent of instructor.

**420b-4 Methods and Materials in the Education of the Educable Mentally Handicapped.** Usually offered in conjunction with practice teaching. Methods and materials needed in teaching educable mentally retarded in special education programs. Prerequisites: 410b, consent of instructor.

**420c-4 Methods and Materials in the Education of the Gifted.** Offered in conjunction with practice teaching. Methods and materials needed in teaching gifted children. Prerequisite: 410c.

**427-4 Physical Education and Recreation for the Handicapped.** (See Physical Education 427.)

**428-4 Speech Correction for the Classroom Teacher.** (Same as Speech Pathology and Audiology 428.)

**481a-4 Seminar: Emotionally Disturbed.** Focuses on classroom management, dynamics of behavior, and behavior modification through a systematic learning theory approach. Prerequisites: 410a, consent of instructor.

**481b-4 Seminar: Educable Mentally Handicapped.** Emphasizes special problems of the retarded, issues in curriculum planning, and implementation and techniques for establishing effective school-home and school-community relations as they apply to retarded children. Prerequisites: 410b, consent of instructor.

**481c-4 Seminar: Gifted.** Considers issues such as special courses, regular class placement of the gifted, curriculum provisions, identification and guidance of the gifted. Prerequisites: 410c, consent of instructor.

**496-1 to 8 Readings and Independent Study in Special Education.** Study of a highly specific problem area in the education of exceptional children. Open only to selected seniors and graduate students. Prerequisites: 414, consent of staff.

**501-4 Special Research Problem.** For majors and minors in the field of special education. Choosing and conducting research activities. The student to select a topic for research and present it, upon completion, to the staff. Prerequisite: consent of staff.

**513-4 Organization, Administration, and Supervision of Special Classes.** Emphasis upon the functions, underlying principles, and cautions to be observed in the organization and administration of special classes. The selection and training of teachers, problems of supervision, special equipment, transportation, cooperating agencies, and legal aspects of the problem. Prerequisite: 414.

**517-4 The Atypical Child and Social Agencies.** A survey of social agencies contributing to the welfare and care of exceptional children. Emphasis given to services rendered and to methods of contact and cost. Visits made to agencies and institutions. Specialists invited to appear before the class.

**518-4 to 8 Workshop in Special Education.** Designed to promote better understanding of the psychological and educational problems of atypical children. Specialists used as consultants. Open to graduate students majoring in education, counselor education, or special education. Prerequisite: 414.

**570-2 Seminar: Vocational Guidance of the Handicapped.**

**571-2 Special Problems of the Handicapped I.**

**572-2 Special Problems of the Handicapped II.**

**577-4 to 12 Practicum in Special Education.** Supervised experience in school or institution programs for atypical children. Special research project. Open to graduate students only. Prerequisites: 410a or b or consent of staff.

**580-8 (4,4) Seminar: Education of Exceptional Children.**

**590-12 (4,4,4) Seminar: Mental Retardation.** Critical review of administrative practices, research, theories and etiological factors relevant to programs in the



education of children who are mentally retarded or gifted. Implications of research in related disciplines. Application of theories to practice. Open to advanced graduate students in special education only. Prerequisite: consent of instructor.

### Speech

**406-4 Teaching Speech in Secondary Schools.** Philosophy of speech education, and effective teaching of speech through curricular and extra-curricular work. Prerequisite: 16 hours of speech.

**407-8 (4,4) History of American Public Address.** Critical studies of American speakers; selected speakers and speeches which reflect the dominant social and political ideas in America history. A lecture, reading, and discussion course. Parts may be taken independently.

**408-4 Psychology of Speech.** Nature and development of speech, its basic psychology, and the part speech plays in personality development.

**449-4 General Semantics.** Means of changing implications so that language, in spoken or written form, describes the life facts.

### Speech Pathology and Audiology

**405-12 (4,4,4) Practicum in Speech and Hearing Therapy.** Clinical and school procedures in speech correction and audiology. One hour of class per week, and 2 hours of clinical activity or work on clinically related projects for each hour of credit. 405a (fall) emphasizes therapeutic procedures. 405b (winter) emphasizes diagnostic techniques. 405c (spring, summer) emphasizes the utilization of forms and the preparation of reports. Students may have up to 12 hours total credit in this course. Need not be taken in sequence, but a,b, or c cannot be repeated. Prerequisite: junior standing in department.

**406-4 Techniques and Interpretation of Hearing Tests.** Principles and techniques of testing the hearing and interpreting those tests in terms of the individual's needs. Prerequisite: 416 or consent of instructor.

**412-4 Cerebral Palsy.** An investigation of the etiology, problems, and therapy of cerebral palsy. Prerequisites: 212, 414 or consent of instructor.

**414-4 Anatomy and Physiology of Speech and Hearing Mechanisms.**

**415-4 Aphasia.** An investigation of the etiology, problems, and therapy of aphasia. Prerequisite: 412, 414 or consent of instructor.

**419-4 Communication Problems of the Deaf and Hard of Hearing.** Objectives and techniques for the teaching of lip reading, speech conservation, and auditory training. Prerequisite: 406 or consent of instructor.

**428-4 Speech Correction for the Classroom Teacher.** (Same as Special Education 428.) Etiology and therapy of common speech defects. Open to in-service teachers, seniors, and graduate students in education.

### Theater

**400-0 to 18 (0,2,4, or 6 per quarter) Theater 400.** Seminar-studio. Main stage repertory theater assignment. Prerequisites: 100, 200, 300.

**402-8 (4,4) Play Directing.** (a) The principles and procedures of play direction including play selection, interpretation, and the patterning of auditory and visual stimuli. (b) Continuation of 402a emphasizing rehearsal procedures, and control of tempo and mood, styles of presentation and performance, and other techniques in the direction of plays.

**404-2 Workshop in Dance for In-Service Teachers.** (See Physical Education 404.) History of dance, values of dance, interpretation of music for dance, teaching techniques and facilities, and fundamental dance movements leading to knowledge and command of dance skills.

**410-3 Children's Theater.** Creative dramatics; dramatization of children's literature; play production for elementary schools. Recommended for education concentrations.

**438-4 Contemporary Developments in Theater.** Critical study of theory and practice in acting, directing, production, and architecture in the modern theater. The development of the film, radio, and television as dramatic media.



# 4 / Faculty

## **Business Division**

### *Accounting*

*Associate Professors* Donald P. Bedel, James Eaton, Irvin Jarett (*Chairman*),  
Richard J. Milles, Joe R. Small.  
*Assistant Professor* Burton J. Nissing.

### *Business Education*

*Professors* Mary Margaret Brady (*Chairman*), Wilmer O. Maedke.  
*Associate Professors* Gene L. Houser, Elise D. Palmer, Patricia Patsloff.  
*Assistant Professor* Wayne Eirich.

### *Economics*

*Professors* Leo Cohen, Louis S. Drake, Howard S. Dye (*Chairman*)  
*Associate Professors* Rasool M. H. Hashimi, Michael Keran, David C. Luan,  
Ann S. Schwier.  
*Assistant Professor* An-Yhi Lin.

### *General Business Administration*

*Professors* Walter Blackledge, Homer L. Cox, John J. Glynn, Arthur Hoover  
(*Chairman*), Kenneth Myers, Ralston D. Scott.  
*Associate Professors* S. Kumar Jain, Don A. Livingston, John V. Meador,  
Stanley L. Sokolik.

### *Management Science*

*Associate Professors* Robert S. Hoeke (*Chairman*), Boulton B. Miller.  
*Assistant Professor* Paul Tarpey.

### *Marketing*

*Professors* Howard S. Dye (*Acting Chairman*), James M. Gwin.  
*Assistant Professor* Warren A. DeBord.  
*Instructor* Daniel B. Bosse.

## **Education Division**

### *Counselor Education*

*Professors* Howard V. Davis, Cameron W. Meredith, Daniel W. Soper.  
*Associate Professors* Thomas W. Hansmeier, John J. McBride (*Chairman*),  
William Mermis, Dean E. Rochester, Raymond E. Troyer.  
*Assistant Professor* James J. Pancrazio.  
*Visiting Professor* Helen Ederle.

### *Educational Administration*

*Professors* George C. Ackerlund, Robert G. Andree, H. Bruce Brubaker, Leon-  
ard B. Wheat, W. Deane Wiley (*Chairman*).  
*Associate Professors* Merrill Harmin, George T. Wilkins.

*Health, Recreation, and Physical Education*

*Associate Professor* Zadia C. Herrold (*Chairman*).

*Assistant Professors* Rosemarie Archangel, Walter C. Klein, Norman E. Showers.

*Instructional Materials*

*Professor* Boyd Mitchell.

*Associate Professor* Eldon H. Madison (*Chairman*).

*Assistant Professor* Vykuntapathi Thota.

*Psychology and Psychological Services*

*Professors* Alfred E. Kuenzli, H. Dene Southwood, Lawrence E. Taliana.

*Associate Professors* Erwin H. Brinkmann (*Chairman*), Robert O. Engbretson, Eva D. Ferguson, Virginia N. Harris, John N. McCall, Frank B. McMahon, J. Robert Russo, Kathryn K. Skinner, Fay H. Starr, Richard P. Walsh.

*Assistant Professors* Robert A. Daugherty, Bernard J. Hartman, Robert J. McLaughlin.

*Special Education and Rehabilitation*

*Professor* Mark M. Tucker.

*Associate Professor* Orval G. Johnson (*Chairman*)

*Assistant Professor* V. Faye Shaffer.

*Teacher Education and Curriculum*

*Professors* David E. Bear, Ralph W. Ruffner, Herbert F. A. Smith, Francis T. Villemain (*Chairman*), G. K. Dale Wantling.

*Associate Professors* Gordon C. Bliss, Henry T. Boss, Regan Carpenter, George H. Goodwin, S. Joseph Gore, Olin Hileman, Ruth W. Richardson, John H. Schnabel, Myllan Smyers, Leslie J. Wehling.

*Assistant Professors* James M. Comer, A. Dudley Curry, Donald Darnell, Arthur E. Jordan, Donald C. Madson, Roy S. Steinbrook, Richard Swerdlin.

*Lecturer* David C. Hofmann.

*Visiting Professor* Charles A. Lee.

**Fine Arts Division***Art and Design*

*Professor* Harry H. Hilberry (*Chairman*).

*Associate Professors* Evelyn T. Buddemeyer, William F. Freund, David C. Huntley, Leon Jacobson, Catherine E. Milovich, John A. Richardson.

*Assistant Professors* Nancy B. Altvater, John W. Cannon, Jr., Don F. Davis, Lawrence L. Marcell, Michael J. Smith.

*Music*

*Professors* Lloyd G. Blakely (*Chairman*), Warren A. Joseph, John D. Kendall, Dale Moore, Ruth Slenczynska, Edwin B. Warren.

*Associate Professors* Assen Kresteff, Dorothy E. Tulloss, Leonard VanCamp.

*Assistant Professors* Clinton Fjerstad, George K. Mellott, Robert Oberlag, Kent Perry, Renato Premezzi, Robert Schieber, William H. Tarwater.

*Speech and Theater*

*Professors* Andrew J. Kochman, Keith R. St. Onge, Hollis L. White (*Chairman*).

*Associate Professors* Robert B. Hawkins, Lynn F. Kluth, James L. Robinson, Richard L. Stope, William W. Vilhauer.

*Assistant Professors* Stephen M. Archer, Leslie Branham, Alcine Wiltz.

## **Humanities Division**

### *English Language and Literature*

*Research Professor* John F. McDermott.

*Professors* James C. Austin, James M. Brown, Robert Duncan, Ellen Frogner, William T. Going, Nicholas Joost, Marion A. Taylor, Wayland B. VanSyoc, Gordon R. Wood.

*Associate Professors* John I. Ades (*Chairman*), Dale S. Bailey, Gertrude Drake, A. Edwin Graham, Stella Revard, William C. Slattery, Jules Zanger.

*Assistant Professors* Herman A. Dreifke, Daniel F. Havens, Gladys R. Steinman.

### *Foreign Languages and Literature*

*Professors* Helen D. Goode, Paul F. Guenther, Alfred G. Pellegrino (*Chairman*), Raymond J. Spahn.

### *Philosophical Studies*

*Professors* George W. Linden (*Chairman*), Gerald J. T. Runkle.

*Associate Professors* William John Emblom, Ronald J. Glossop, Norman D. Livergood.

*Assistant Professors* John Barker, Charles Corr.

## **Library**

*Associate Professors* John C. Abbott, John Dustin.

## **Department of Nursing**

*Professor* Harriet Smith Reeves.

*Associate Professors* Mable Grumley Burton, Maxine J. Chambers, Lucille H. McClelland, Lydia Ricci, Mary Steck.

## **Science and Technology Division**

### *Biological Sciences and Technology*

*Associate Professors* Ralph W. Axtell, Harold E. Broadbooks, Marion L. Kumler, Donal G. Myer, Jamie E. Thomerson, Gertraude C. Wittig.

*Assistant Professors* Justin N. Frost, Richard D. Keating, Michael Levy, Nancy R. Parker, Richard R. Parker (*Chairman*), Kermit O. Ratzlaff.

*Visiting Professor* Peter Savostin.

### *Chemistry*

*Associate Professors* Marinus P. Bardolph, Ferdinand H. Firsching, William J. Hufker, Emil F. Jason, Irwin H. Parrill, William J. Probst, David G. Rands, J. Edmund White (*Chairman*).

*Assistant Professors* Ralph Lee Bain, Henry D. Drew, Antony Wilbraham.

### *Engineering*

*Professors* Julius Brown (*Chairman*), Leonard Jones.

*Associate Professors* George Arnold, Myron C. Bishop.

### *Mathematical Studies*

*Professors* Kermit G. Clemans, Andrew O. Lindstrum, Jr., Robert N. Pendergrass (*Chairman*), Eric A. Sturley.

*Associate Professors* William C. Bennewitz, Arthur O. Garder, Orville Goering, Richard E. Hughes, Clellie C. Oursler, Robert B. Rutledge, III.



*Assistant Professors* Florence A. Fanning, Ray C. Gwilliam, Jimmie Ray Hattemer, Lyman S. Holden, Irving J. Kessler, Paul H. Phillips, George V. Poynor, Gregory Stephen.

### *Physics*

*Professors* Mohamed A. Hakeem, Laurence R. McAneny, William C. Shaw.  
*Associate Professors* Richard R. Boedeker, Charles Rockman, Lionel K. Wal-  
ford.  
*Assistant Professor* Steven G. Sanders (*Chairman*).  
*Instructor* Frederick Zurheide.

## **Social Sciences Division**

### *Behavioral Sciences*

*Professors* Paul J. Campisi (*Chairman*), Donald L. Taylor, Fred W. Voget.  
*Associate Professors* Robert Blaine, Robert B. Campbell, Ernest L. Schusky,  
Jack B. Thomas.  
*Assistant Professor* Robert Allan Laud Humphreys.

### *Earth Sciences*

*Professors* James E. Collier, Melvin E. Kazeck (*Chairman*).  
*Associate Professors* William B. Baker, Alfred Kahn, Harry B. Kircher, Carl  
S. Lossau.  
*Assistant Professors* Dorothy J. Gore, Richard E. Guffy, Robert L. Koepke.

### *Government and Public Affairs*

*Professors* Kurt Glaser, Daniel S. McHargue, John S. Rendleman.  
*Associate Professors* John W. Ellsworth (*Chairman*), James R. Kerr, S. D.  
Lovell, George R. Mace, Arthur A. Stahnke.  
*Assistant Professor* Georg Maier.

### *Historical Studies*

*Professors* Earl S. Beard, Patrick W. Riddleberger, Herbert Rosenthal.  
*Associate Professors* Michael C. Astour, Robert F. Erickson (*Chairman*), John  
G. Gallaher, Stanley B. Kimball, Allan J. McCurry.  
*Assistant Professors* James M. Haas, Richard L. Millett, Samuel C. Pearson,  
Jr., Ronald A. Steckling, Stuart L. Weiss.

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Southern Illinois University  
*Bulletin*

*Schedule of Classes*  
*Edwardsville Campus*

*Summer Quarter, 1969*



## **This Bulletin**

contains the schedule of classes to be offered by the Edwardsville Campus for the summer quarter, 1969, at Edwardsville, Alton, and East St. Louis. It also provides information relative to admission, advisement, registration, and fees.



# Schedule of Classes

*Summer, 1969*

*Edwardsville Campus*



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# University Calendar

<i>SPRING, 1969</i>	Quarter Begins	Wednesday, March 26 (Classes 4:30 P.M. or later)
	Memorial Day Holiday	Friday, May 30
	Final Examinations	Wednesday–Tuesday, June 4–10
	Commencement (Edwardsville)	Tuesday, June 10
	Commencement (Carbondale)	Wednesday, June 11

<i>SUMMER, 1969</i>	Quarter Begins	Tuesday, June 17 (Classes 4:30 P.M. or later)
	Independence Day Holiday	Friday, July 4
	Final Examinations	Monday–Friday, August 25–29
	Commencement (Edwardsville)	Friday, August 29
	Commencement (Carbondale)	Saturday, August 30



## Registration Calendars, Summer, 1969

### EDWARDSVILLE CAMPUS

Registration will be held in the Enrollment Office, 1308 General Offices Building.

#### **May 21–28.**

Registration by appointment. Continuing students are given an appointment at time of Spring Registration. New and re-entering students are given an appointment when admitted. Mon.–Thurs. 8:30 A.M.–6:30 P.M.; Fri. 8:30 A.M.–4:00 P.M.; Sat. 8:30 A.M.–12:00 Noon.

#### **May 31–June 5.**

Registration. No appointment necessary. Mon.–Fri. 8:30–11:30 A.M., 1:00–6:30 P.M.; Sat. 8:30 A.M.–12:00 Noon.

#### **June 13.**

Registration. No appointment necessary. 8:30–11:30 A.M., 1:00–4:00 P.M.

#### **June 17.**

Central registration. No appointment necessary. 8:30 A.M.–6:30 P.M.

### EAST ST. LOUIS CENTER

#### **May 29 and June 16.**

Registration. No appointment necessary. 8:30–11:30 A.M., 1:00–6:30 P.M.

### BOTH LOCATIONS

#### **June 17.**

Summer quarter begins. Evening classes (4:30 P.M. or later) begin.

#### **June 18.**

Day classes begin.

#### **June 23.**

Last day to add classes.

#### **June 30.**

Last day to be eligible for a refund of fees.

#### **July 4.**

Independence Day Holiday.

#### **July 15.**

Last day to withdraw from class without receiving a grade.

#### **August 11.**

Last day to withdraw from school.

#### **August 25–29.**

Final examinations.

# 1 / General Information

The Edwardsville Campus of Southern Illinois University has scheduled a summer quarter, June 17 to August 29. Courses designed specifically to meet the needs of teachers are scheduled for shorter periods with the majority planned to meet for eight weeks.

The Edwardsville Campus offers courses leading toward associate, bachelor's, and master's degrees in selected fields.

A variety of course offerings have been scheduled to meet the specific needs of (1) teachers in service, (2) freshmen—beginning and refresher courses, (3) upperclassmen—basic requirements, (4) graduate students, and (5) liberal arts graduates and individuals on temporary certificates desiring teacher certification.

For additional information, write to the Admissions Office, Southern Illinois University, Edwardsville, Illinois 62025.

## Admission

Application for admission to the summer quarter should be initiated with the Admissions Office on or before June 1 to permit all necessary processing work to be completed by the start of the quarter. A general admission requirement is the filing of a transcript of record covering all previous high school and college work. Transcripts should be mailed to the Admissions Office from the institution(s) attended and should reach the Admissions Office prior to June 3, 1969.

An undergraduate student attending another institution who expects to graduate therefrom and who desires to attend here during the summer only will be admitted as a special student on the basis of a letter of good standing from the registrar of the institution the student is attending. The letter of good standing should be sent directly to the Admissions Office in Edwardsville and must be received prior to registration. The special student's application should be submitted to the Admissions Office by June 1, 1969. A high school senior who ranks in the lower half (lower 60 percent but upper half for out-of-state students) of his graduating class who is permitted to enter conditionally for the summer quarter must register for 8 hours or more in order to continue in attendance during the fall quarter and must earn a C average or above during the summer quarter.

A student attending the Carbondale Campus spring quarter who plans to attend the Edwardsville Campus during the 1969 summer quarter must initiate his registration process by contacting the Admissions Office at Edwardsville.

## *Social Security Number*

Each student seeking admission to the University will need to present a social security number for identification purposes. Any local social

security office can provide assistance in obtaining a number or replacing a lost card. At Alton the social security office is at 1623 Washington Street; at East St. Louis the office is at 435 Missouri Avenue; at Edwardsville the Illinois State Employment office, 111 West Vandalia, provides social security information.

*Required Tests*

Each student entering Southern Illinois University directly from high school is required to furnish to the University scores on the test battery administered by the American College Testing Program (A.C.T.). These tests are given at regional test centers throughout the United States in April. Information and application blanks are normally available through the high school guidance director or principal, or may be obtained by writing directly to: American College Testing Program, Box 168, Iowa City, Iowa 52240.

A student who finds it impossible to take the A.C.T. tests may have scores from the College Entrance Examination Board (C.E.E.B.) submitted. The specific scores, which must be submitted if the C.E.E.B. tests are submitted, are Scholastic Aptitude Test, English Composition Test, and Mathematics (Intermediate) Test. In order to have identical test data, a student who submits C.E.E.B. test data will be required to submit scores from the A.C.T. no later than one month after registration.

Transfer students are required to furnish A.C.T. scores to the Student Counseling and Testing Center. (A transcript of these scores is available by sending one dollar and a written request to the American College Testing Program in Iowa City.) If the scores are on file at the student's former school, a request should be made for their forwarding. Test scores are not normally sent with a person's transcript of grades and must be requested separately from the appropriate office at the former school. If the A.C.T. tests have not been taken, arrangements to do so should be made.

**Registration**

All General Studies students must make up their schedule with approval of General Studies Advisement Office. Recent changes have been made in the General Studies Program which result in reduced loads. All students should secure the help of General Studies Advisement Office to learn of these changes.

*Fees for a Regular Quarter*

The fee schedule is as follows: Fees are subject to change whenever conditions make changes necessary.

	Not more than 5 hrs.	More than 5, less than 11	11 or more
Tuition Fee—Illinois Resident .....	\$14.00	\$28.00	\$42.00
Tuition Fee—Out of State Resident .....	(30.00)	(115.00)	(172.00)
Student Welfare and Recreation			
Building Trust Fund Fee .....	5.00	10.00	15.00
Book Rental Fee .....	3.00	6.00	8.00
Student Activity Fee .....	3.50	7.00	10.50



University Center Fee .....	5.00	5.00	5.00
Athletic Fee .....	3.00	6.50	10.00
<i>Total</i> —Illinois Resident .....	<u>\$33.50</u>	<u>\$62.50</u>	<u>\$90.50</u>
<i>Total</i> —Out of State Resident .....	(49.50)	(149.50)	(220.50)

Graduate students do not rent their textbooks and do not pay the book rental fee. They purchase their books.

Students having special fee status, such as scholarship holders, faculty, and staff, will pay fees according to their particular status. Prior to registration this student will go to the Student Work and Financial Assistance Office to secure certification.

### *Late Registration Fee*

The first day of a quarter is considered the last day of the regular registration period. Registrations thereafter, including those for classes “to be arranged” are considered late registrations and are assessed an appropriate late registration fee. This fee is \$2.00 the first day and an additional \$1.00 per day to a maximum of \$5.00.

### **Academic Load**

The normal class load is 16 quarter hours for undergraduate students and 12 quarter hours for graduate students. The maximum load for both is 18 hours. A student with a 4.25 average or above for the preceding quarter may be allowed by the chief academic adviser or by the dean of his division to take as many as 21 hours. In no case may a student carry or be credited with more than 21 hours in any quarter. A student on probation may not take more than 14 hours.

A person should not register for more than 8 hours if he is employed full time.

The Selective Service System requires a minimum of 12 hours to qualify for a student deferment. There is a further requirement that he complete 48 hours each year.

The National Defense Education Act requires a minimum of 12 hours to qualify for a student loan.

For students receiving benefits under the “GI Bill” (P.L. 358) the following regulations apply:

	<i>Undergraduate</i>	<i>Graduate</i>
Full benefits	14 or more hrs.	12 or more hrs.
$\frac{3}{4}$ benefits	10–13 hrs.	9–11 hrs.
$\frac{1}{2}$ benefits	7–9 hrs.	6–8 hrs.

### *Program Changes*

Mere attendance does not constitute registration in a class, nor will attendance in a class for which a student is not registered be a basis for asking that a program change be approved permitting registration in that class. A student is officially registered only for those courses appearing on his registration cards. Any change therefrom can be made only after fees

are paid and must be made through an official program change. A student is considered officially registered after he has cleared his payment of fees at the Bursar's Office.

A program change must be made in order to drop or add a course. A student may not drop a course merely by stopping attendance. If a student desires to drop a course during the second, third, or fourth week of a quarter, the change will be approved only when the reasons appear valid. If a student desires to drop a course after the fourth week, the change will be approved only under unusual conditions. In the last three weeks changes will be approved only in extreme emergencies.

A General Studies student desiring to make a program change must secure approval of the General Studies Advisement Office. He, and any other student desiring to make a program change, will then go to the Enrollment Center. (Starting the second week of the quarter an evening student at East St. Louis may initiate his request to drop a course by going to the General Office in East St. Louis.) He is required to present his fee receipt program card and must complete the following procedure. After having been cleared with the Enrollment Center, program changes for which a program change fee is assessed must be presented to the Business Office for payment. The student immediately returns the program change to the Enrollment Center in the Registrar's Office for final processing. A student has not completed his program change until he presents it to the Enrollment Center. No change is official until the preceding procedure is completed.

### **Withdrawal From School**

A student who finds it necessary to withdraw from school while the quarter is in progress must report to the Student Affairs Office to initiate official withdrawal action.

No withdrawal will be permitted during the last two weeks of a quarter except under exceptional conditions. A refunding of fees is permitted only if a withdrawal is officially completed within the first two weeks of a quarter and if the application for a refund is received in the Registrar's Office by June 30, 1969. See the registration calendar for specific dates concerning withdrawal and refunding of fees.

### **Student Responsibility**

Each student must assume responsibility for his progress by keeping an up-to-date record of the courses he has taken and by checking periodically with his adviser and the Registrar's Office. Responsibility for errors in program or in interpretation of regulations of the University rests entirely with the student.

### **Graduation**

Each student planning to graduate at the summer commencement must apply for graduation at the time of registration for summer classes. All applications for graduation must be received by June 17, 1969, by the Registrar's Office.

### **Student Employment**

Students interested in part-time employment on campus during the summer should make early application to the Office of Student Employment, Southern Illinois University, Edwardsville, Illinois.

### **Hospitalization**

Blue Cross and Blue Shield In-hospital Insurance is offered to all students. Cost of the insurance is \$9.00 per quarter for single and \$28.20 per quarter for family plan. This insurance is available at the time of registration.





## 2 / Workshops and Special Programs

*Survey Course in Marriage Counseling, SOC 484-4, June 16-July 3, 6:30-10:20 P.M., PB 1414.*

This workshop will consist of lectures, case discussions, and personal supervision of case analyses. Persons who may wish to enroll in this workshop should actively be engaged in counseling or be preparing to do counseling as a part of their professional practice. Admission by consent of instructor.

*National Science Foundation Physics Institute, June 23-August 15.*

This eight-week institute has been designed to develop and maintain a strong physics instruction program in the junior and senior high school. The secondary school teacher may take courses giving 15 quarter hours of credit. The institute will sponsor other activities of interest.

*Art Workshop for Boys and Girls Ages 7 to 11 Years, June 10-July 30, Tuesdays and Thursdays, 2:00-4:00 P.M., SL 0209.*

The class will offer an opportunity for exploration and experimentation in a variety of materials. The motivation will be varied and in keeping with individual needs as well as group activity. When possible, the class will be divided into small groups by ages and compatibility of interest. The emphasis will be on the development in the individual of his creative power through art activity.

The class will be observed by members in the adult class of Art Education 300a. Fee: \$12.50. No academic credit will be granted. For further information, contact Mrs. Evelyn T. Buddemeyer on campus—692-3073.

*Physical Fitness Workshop for Elementary School Age Children, August 11-22, 9:00-11:00 A.M.*

Instructor: Mr. Larry Moehn.

The primary purpose of this program is to provide fun and games for children through participation in selected recreational activities. The children will be exposed to many new games and innovations in the area of elementary physical education; primarily outdoor activities will be emphasized. The program will be for boys and girls, grades one through seven.

*Stunts and Tumbling, Gymnastics, GSE 118r-1 and GSE 118s-1, June 9-17, 9:00 A.M.-4:00 P.M., GYM 102.*

Instructor: Mr. George Luedke.

### **Instructional Recreational Gymnastics Program**

This in-service course is open to all interested students, teachers, and administrators. The course will be divided into a morning session from 9:00 A.M.-12:00 noon and an afternoon session from 1:00-4:00 P.M. The

morning session, 118r, will be stunts and tumbling. The afternoon session, 118s, will be gymnastics. The emphases of these courses will be on the learning of stunts and tumbling and gymnastic skills, class organization, program development, skill analysis, teaching cues, spotting and safety techniques, and available resource materials.

*Workshop in Sex Education for Elementary Teachers, H ED 470-3, July 7-17, 1:30-5:20 P.M., PB 2306.*

Instructor: Dr. Donald L. Taylor.

This workshop is designed to encourage elementary school teachers to integrate sex education concepts into their teaching program. Current theories and knowledge concerning the psycho-social aspects of the maturation process will be related to the content used for teaching pupils at various grade levels. Specialists in the areas of psychology, public health, and social welfare offer a multi-discipline approach to help teachers plan a program based upon the characteristics and needs of pupils.

*Workshop in Teaching Athletic Skills, PE 476-2 to 4, June 16-June 27, 9:30 A.M.-12:00 Noon and 1:30-4:00 P.M., PB S. Patio.*

Instructors: Mr. Robert Guelker and Mr. Roy Lee.

Mr. Harry Gallatin and Mr. William Brick.

This workshop is designed to provide for physical education teachers modern teaching techniques of skills, conditioning, and strategies for elementary, junior high, and senior high school students. The course material could also be helpful to physical education teachers of college students, as well as to prospective coaches in the subject matter field. The first week of the workshop will cover soccer and baseball, and the second week will cover golf and basketball. Individuals may register for the entire two-week period for 4 quarter hours credit or for one week for 2 hours credit.

*Workshop in Dance for In-Service Teachers, PE 404-2, June 16-27, 9:30 A.M.-12:00 Noon, CB 1024.*

Instructor: Sara Carpenter.

This workshop will include history of dance, values of dance, interpretation of music for dance, teaching techniques and facilities, and fundamental dance movements leading to knowledge and command of dance skills.

*Workshop in Methods and Materials for Teaching Physical Education Activities in the Elementary School, PE 350-4, July 14-August 1, 9:00 A.M.-12:00 Noon, PB 2412.*

Instructor: Mr. Larry Moehn.

This workshop is for supervisors and teachers of physical education. Curriculum planning based on grade characteristics and educational philosophy, presentation of skills including skill tests, lead-up games, stunts and tumbling, games of low organization, creative rhythms, singing games, and folk dance are the content area.

*Workshop in Physical Education and Recreation for the Handicapped, PE 427-4 or SP ED 427-4, June 16-July 3, 9:00 A.M.-3:00 P.M., Gym 102.*



Instructors: Dr. Mark Tucker and Mr. Larry Moehn.

Characteristics of handicapped children as they affect the feasibility of physical education and recreation activities. Values of specific activities for certain types of children, and methods and materials for teaching physical education and recreation skills. Emphasis on activities suitable to classroom, home, and institution.

*Workshop in Violin with Shinichi Suzuki, Non-credit, June 24-28.*

Instructor: Mr. John Kendall.

Daily sessions and master classes with Dr. Suzuki. Demonstrations with young violinists of the Southern Illinois University Preparatory String program. Discussions with Mr. Kendall on the adaptation of Mr. Suzuki's ideas for American students, parents, and teachers.

*Workshop in Junior High School Music, MUS 451-3, June 17-July 11, 1:30-3:20 P.M., PB 3404.*

Instructor: Dr. Warren Joseph.

What to do with the early adolescent and his musical experiences. The changing voice will be a feature of the concerns along with a general music-humanities orientation to music for the teen-ager.

*Workshop in Music Education in the Elementary Schools, MUS 455-4, June 17-July 11, 9:30-11:20 A.M., PB 3404.*

Instructor: Dr. Dorothy Tulloss.

This workshop is designed to explore the learning processes evidenced through the teaching concepts of the Zoltan Kodaly, Carl Orff, and Dalcroze methods as related to the current music materials available to the music program. In-depth experiences in approaches to understanding of notation through these methods will be emphasized. For further information write to: Dr. Lloyd G. Blakely, Chairman, Faculty of Music, Fine Arts Division, Southern Illinois University, Edwardsville, Illinois 62025.

*Workshop in Special Education, SP ED 518-4 to 8, 001, June 16-July 11, 9:00 A.M.-12:00 Noon, PB 3305.*

*Book Selection, IM 422-4, June 17-30, 8:30 A.M.-2:30 P.M., ANA 100.*

Principles and procedures of selection will be investigated through lecture, group work in class, plus individual exploration and practice in daily assignments. Aimed towards school and public library. Censorship will be explored and guiding principles will be formulated.

*Community Junior College Curriculum, ED AD 551-4, August 11-22, 8:30 A.M.-4:00 P.M., PB 3313.*

An intensive workshop that is directed to both the junior college instructor and instructional specialist and the educator who desires to understand the nature of the expanding junior college curricula and present developments. College parallel, occupational-technical, general developmental and adult and community service programs will be analyzed and assistance given in the preparation of new programs for specific colleges. Authorities will be on hand to contribute to this study of junior college programs, and desirable instructional techniques for their implementation.

*Workshop in Current Problems in Secondary Education, ED S 591-4, July 7-18, 8:30 A.M.-4:00 P.M., LB 0042.*

**The Junior High School**

A workshop for graduate students in education, relative to the current problems of the junior high school. The theme of the workshop will be "Focus on Students."

*Seminar in Philosophy of Education, ED AD 503-4, June 3-16, 8:00-11:30 A.M., PB 1302.*

**The Value Education of Youth in a Period of Social and Moral Change**

A critical examination of both traditional aims of value education and certain non-directive proposals associated with value subjectivism.

*Block Scheduling for Certain Master of Science in Education Courses.*

In order to serve the needs of students, the limitations of time and/or transportation, the following courses are offered:

ED AD 500-4, 001, 7:30-9:45 A.M., MW (8 weeks)

ED AD 554-4, 001, 10:00 A.M.-12:15 P.M., MW (8 weeks)

ED AD 503-4, 002, 2:30-4:45 P.M., WTh (8 weeks)

ED AD 456-4, e002, 5:30-7:15 P.M., WTh (8 weeks)

ED AD 500-4, 002, 8:30-10:20 A.M., MTWThF, June 18-July 16 (4 weeks)

ED AD 456-4, 001, 8:30-10:20 A.M., MTWThF, July 17-August 13 (4 weeks)

ED AD 554-4, 002, 11:30 A.M.-1:20 P.M., MTWThF, June 18-July 16 (4 weeks)

ED AD 500-4, 003, 11:30 A.M.-1:20 P.M., MTWThF, July 17-August 13 (4 weeks)

*Workshop in Business Education, BS ED 505-4, 003, July 14-25, 8:30 A.M.-12:20 P.M., PB 2411.*

**Micro-Teaching Workshop**

Micro-teaching is scaled-down teaching encounter developed at Stanford University to serve as an in-service training instrument for experienced teachers. In micro-teaching the teachers are exposed to variables in classroom teaching skills including: (1) re-inforcement, (2) stimulus variation, (3) presentation set, (4) presentation lecturing and use of instructional technology, (5) illustrations and examples, (6) closure, and (7) student-initiated questions.

Teachers will teach brief lessons in the area of their choice to a small group of pupils (3 or 4) allowing opportunity for video-tape recording for immediate feedback, and collection and utilization of student feedback. Limited to 15.

*Workshop in Business Education, BS ED 505-4, 002, June 30-July 11, 8:30 A.M.-12:20 P.M., PB 2411.*



## **Methods of Simulation**

This is a course to develop techniques of simulating business transactions and activities in an interdisciplinary approach utilizing skills and techniques of business practices including: communications, decision-making, duplication, management, office etiquette, shorthand, typewriting, and records management on a realistic basis. Equipment and activities will be the same as students will find in offices in various areas of business. Methods will include the case method of study, in-basket preparation of software, and computer simulation games for decision-making applications. Business authorities will be utilized as resource people.

*Workshop in Business Education, BS ED 505-4, 001, June 16-27, 8:30 A.M.-12:20 P.M., PB 2411.*

## **Stenograph Workshop**

Attend the Stenograph (machine shorthand) workshop and within two weeks learn the theory and develop skill on this exciting notetaking device. Shorthand teachers already possess 95 per cent of the skill they need to learn the techniques. Limited to 30.

*Workshop in Business Education, BS ED 505-4, 005, July 28-August 8, 8:30 A.M.-12:20 P.M., PB 3305.*

## **Business and Industry Visits**

An opportunity for business teachers to become up-to-date on procedures used in business today. Visits to Industry will comprise 70 per cent of in-class time. Groups of teachers will then prepare teaching materials which incorporate current business practices. Limited to 40.

*Applications and Fundamentals of Data Processing in Business Education, BS ED 417-4, June 16-27, 8:30 A.M.-12:20 P.M., PB 3314.*

An introductory course designed for teachers and prospective teachers. The course will deal primarily with the solution of business data processing problems by means of keypunch, sorter, interpreter, collator, and accounting machine. Uses and limitations of punched card equipment in business data processing. An introduction to the use of the electronic digital computer and programming. Teachers will have hands on use of the equipment.

Heavy emphasis will be placed on techniques for teaching data processing to high school and junior college students with or without equipment. In addition, emphasis will be on methods available to any teacher either to use as a complete data processing course, or to incorporate data processing in other business courses. Attention is given to current readings and employment opportunities for the high school graduate with data processing background.

*Teaching Data Processing, BS ED 507-4, July 14-25, 8:30 A.M.-12:20 P.M., PB 3305.*

This will be an equipment use course with more advanced concepts in data processing than found in BS ED 417. An opportunity to investigate electronic data processing with emphasis on computers, magnetic tapes, and random access files. Programming of problems for computers in FORTRAN or COBOL.



A study of present methods of teaching in the field of data processing or data processing in other business courses, leading to a better organization and presentation of these courses in the secondary school or the junior college.

*Workshop in Business Education, BS ED 505-4, 003, July 14-25, 8:30 A.M.-12:20 P.M., PB 3316.*

**Consumer Education Workshop**

Materials and methods available to incorporate economic understandings in high school business courses, particularly consumer economics and basic business. Credit for this workshop satisfies the state certification requirements under Illinois State School Code Law, Sec. 27-12.1.

*Improvement of Instruction in Secretarial Subjects, BS ED 510-4, June 30-July 11, 8:30 A.M.-12:20 P.M., PB 3316.*

Designed for the high school teacher who is interested in the study of curriculum and teaching procedures in secretarial subjects. The course will include teaching methods and a review of current materials, and research in the secretarial area.

# 3 / Schedule of Classes

*The University reserves the right to cancel, combine, divide, or limit enrollment in any class or classes; to change the date, time, or place of meeting; to make any other revisions in these course offerings which may become desirable or necessary; and to do so without notice and without incurring obligation.*

## Explanation of the Schedule

Courses are listed numerically within each subject-matter area. The entry for each course is arranged as follows:

**First Line:** The course's identification number is followed by the number of quarter hours of credit and the descriptive title. The prerequisites, if any, appear in brackets after the title or on the line immediately below the title.

**Section-Number Lines:** The first column lists the section numbers. Those sections offered at Edwardsville always begin with 0; those sections offered at Alton always begin with 2; those sections offered at East St. Louis always begin with 4. Following each section number is the time the class begins, between 7:00 A.M. and 4:20 P.M. for daytime classes. An ending time is listed only if the class period is longer than 50 minutes. The section number of each evening class has the letter E prefixed. The days when the class meets, the place where it meets, and the instructor's last name complete the entry.

The course numbering system is as follows:

- 000-099 Courses not properly falling in the following categories
- 100-199 For freshmen
- 200-299 For sophomores
- 300-399 For juniors and seniors
- 400-499 For seniors and graduate students
- 500-600 For graduate students only

Students registering for courses listed as "Arranged" should consult the instructor indicated, or the head of the division if no instructor is listed, to determine time and place of meeting.

The following list of building abbreviations will help in the location of classrooms.

- ANA —Annex A—Alton
- CB —Communications Bldg.—Edwardsville
- Gym —Gymnasium—Alton
- LB —Lovejoy Memorial Library—Edwardsville
- PB —John Mason Peck General Classroom Building—Edwardsville
- SL —Science Laboratory Building—Edwardsville
- UC —University Center—Edwardsville
- Wagner —Wagner Building—Edwardsville





# Final Examination Schedule, Summer Quarter, 1969

## Twelve-Week Courses August 25-29, 1969

Examinations in other than twelve-week courses will be given during the regularly scheduled periods during the last week of the course.

	Mon. August 25	Tues. August 26	Wed. August 27	Thurs. August 28	Fri. August 29
7:30 to 9:10	All classes beginning at 7:30, except Tu and/or Th only	Classes beginning at 7:30, Tu and/or Th only	All classes beginning at 8:30 except Tu and/or Th only	Classes beginning at 8:30 Tu and/or Th only	Make-up
9:30 to 11:10	Classes beginning at 9:30 Tu and/or Th only	All classes beginning at 10:30 except Tu and/or Th only	Classes beginning at 10:30, Tu and/or Th only	All classes beginning at 9:30 except Tu and/or Th only	All classes beginning at 3:30 except Tu and/or Th only
11:30 to 1:10	All classes beginning at 12:30, except Tu and/or Th only	Classes beginning at 12:30 Tu and/or Th only	Block exam Speech	All classes beginning at 11:30, except Tu and/or Th only	Classes beginning at 11:30 Tu and/or Th only
1:30 to 3:10	Classes beginning at 1:30 Tu and/or Th only	All classes beginning at 1:30 except Tu and/or Th only	All classes beginning at 2:30 except Tu and/or Th only	Classes beginning at 2:30 Tu and/or Th only	Classes beginning at 3:30 Tu and/or Th only
Evening Classes	At regular class sessions				



## Listing of Classes





MAN'S PHYSICAL ENVIRONMENT AND BIOLOGICAL INHERITANCE (GSA)

101a-5	Introduction to Physical Science [Math 101 or satisfactory score on placement test]	001 002 003 004 005	1:30 2:30-4:20 1:30 9:30-11:20 1:30 2:30-4:20 1:30 8:30-10:20 1:30 2:30-4:20	MTWThF T MTWThF W MTWThF W MTWThF Th MTWThF F	SL 1105 SL 1217 SL 1105 SL 1217 SL 1105 SL 1217 SL 1105 SL 1217 SL 1105 SL 1217	Hakeem Hakeem Hakeem Hakeem Hakeem
101c-3	Introduction to Physical Science [101a or b]	001 002 003 004	12:30 12:30-2:20 12:30 1:30-3:20 12:30 1:30-3:20 12:30 12:30-2:20	T Th M T Th T T Th Th T Th W	SL 3114 SL 1209 SL 3114 SL 1209 SL 3114 SL 1209 SL 3114 SL 1209	
110a-4	The Earth and Its Environment	001 002 003 e004	8:30 8:30-10:20 9:30 8:30-10:20 12:30 12:30-2:20 6:00-8:20	MTWTh Th MTWTh F MTWTh Th M W	PB 1410 PB 0306 SL 3114 PB 0306 PB 1410 PB 0306 SL 1215	Marlow Clements Marlow Marlow
110b-4	The Earth and Its Environment	001 002 003 004	11:30 8:30-10:20 11:30 10:30-12:20 11:30 12:30-2:20 11:30 8:30-10:20	MTWF Th MTWF Th MTWF Th MTWF F	SL 3114 SL 1215 SL 3114 SL 1215 SL 3114 SL 1215 SL 3114 SL 1215	Yarbrough Yarbrough Yarbrough Yarbrough
201a-4	Man's Biological Inheritance [High school chemistry]	001	12:30 10:30-12:20	M W F M	PB 0312 SL 2211	

201a-4	Man's Biological Inheritance	002 003 004 005 006	12:30 1:30-3:20 12:30 8:30-10:20 12:30 2:30-4:20 12:30 8:30-10:20 12:30 10:30-12:20	M W F M M W F T M W F T M W F W M W F W	PB 0312 SL 2211 PB 0312 SL 2211 PB 0312 SL 2211 PB 0314 SL 2211 PB 0314 SL 2211
201b-4	Man's Biological Inheritance [201a]	001 002 003 004	10:30 8:30-10:20 10:30 2:30-4:20 10:30 8:30-10:20 10:30 11:30-1:20	M W F Th M W F Th M W F F M W F F	PB 0312 SL 2211 PB 0312 SL 2211 PB 0312 SL 2211 PB 0312 SL 2211
312-3	Conservation of Natural Resources	001 002 *003 004 e005	8:30 9:30 10:30 1:30 6:30-7:45	M T W M T W MTWTh M T W T Th	Lossau Yarbrough Kazeck Clements Clements
328-3	Human Reproduction and Development [201b]	001	1:30	M W F	Parker SL 3225
330-3	Weather	*001	11:30	MTWThF	Guffy PB 0306
331-3	Climate	001 002 e003	10:30 12:30 6:30-8:20	MTWF MTWF M W	Collier Collier Baker PB 0306 PB 0306 PB 0306
350-3	Atomic Energy	001	9:30	M W F	Boedeker SL 1210
356-3	Astronomy	001 e002	1:30 8:30-9:45	M W F M W	Slotboom PB 0304 SL 1105
363a-3	Philosophy of Science (Same as GSC 363a) [Completion of second-level GSA]	001	9:30	MT Th	Emblom PB 0303

\*8-week course.



101b-4	Survey of Western Tradition	001 8:30 002 10:30 003 11:30 004 12:30 e005 6:30-8:20	MTWTh MTWTh MTWTh MTWTh M W	PB 1306 PB 1306 PB 1306 PB 1306 PB 1306	Santoni Haas Haas Steckling Wurtz
101c-4	Survey of Western Tradition	001 9:30 002 11:30 e003 6:30-8:20	MTWTh MTWTh T Th	PB 1306 PB 1307 PB 1306	Steckling Astour Santoni
103a-4	Sociology-Economics	001 9:30 002 10:30 003 11:30-1:20 e004 6:30-8:20 e005 6:30-8:20	MTWTh MTWTh T Th M W T Th	PB 2306 SL 3114 PB 2306 PB 2306 PB 2306	Biggs Campbell Humphreys Teer Henslin
103b-4	Sociology-Economics	e401 6:30-8:20 001 8:30-10:20 e002 6:30-8:20	T Th T Th M W	Arranged PB 0304 PB 0312	Teer
201a-4	The Individual and His Cultural Environment	001 8:30 002 11:30 e003 6:30-8:20	MTWTh TWThF T Th	PB 0312 PB 0312 PB 0312	Denny Schusky Hayes
201c-4	The Individual and His Cultural Environment	001 8:30-10:20	T Th	PB 1402	Daugherty
203a-4	American Politics in the World Environment	001 9:30 002 11:30	MTWTh TWThF	PB 0312 PB 1410	McHargue Mace
203b-4	American Politics in the World Environment	001 9:30	MTWTh	PB 1410	Koepke
300a-3	History of the United States	001 8:30 002 9:30 003 12:30 004 1:30	MT Th MT Th MT Th MT Th	PB 1307 PB 1307 PB 1307 PB 1307	McCurry McCurry Barnhart Barnhart
300b-3	History of the United States	001 9:30	MT Th	PB 1414	Weiss
300c-3	History of the United States	001 12:30	MT Th	PB 1414	Weiss

311-3'	Economic Development of the United States	001	12:30-1:45	T Th	PB 3303	
318b-3	American State and Local Governments	001	1:30	TWTh	PB 0307	
331-3	The American Education Systems	001	7:30	M T W	PB 3302	Taylor
		*002	8:30	MTWTh	PB 3302	Taylor
		003	9:30	M T W	PB 3302	Aranda
		*004	10:30	MTWTh	PB 3302	Taylor
		005	1:30	M T W	PB 3302	Pierce
		006	1:30	M T W	PB 1414	Brown
		*e007	5:30-7:20	MW	PB 3302	Darnell
388-3	Communism [Completion of second-level GSB]	001	11:30	M T Th	PB 0303	Keene
MAN'S INSIGHTS AND APPRECIATIONS (GSC)						
151-3	Introduction to Poetry [GSD 101a]	001	8:30	M T W	PB 3422	Suess
		002	9:30	M T W	PB 3422	Schmidt
		003	10:30	M T W	PB 3422	Sullivan
		004	11:30	M T W	PB 3422	Hoyenga
		005	12:30	M T W	PB 3422	Ragain
		006	12:30	M T W	PB 0309	Sullivan
		e007	6:30-7:45	T Th	PB 3422	Ragain
155-5	Introduction to Art	001	8:30	MTWThF	LB 0044	H. Smith
		002	11:30	MTWThF	LB 0044	Richardson
156-5	Introduction to Music History-Literature	001	9:30	MTWThF	PB 1316	Pival, Schieber
157-5	The Dramatic Media: Theater, Cinema, and Television	001	10:30	MTWThF	LB 0044	Kluth
252-4	Logic [Completion of first-level GSC]	001	8:30	MTWTh	PB 0307	Livergood
		002	9:30	MTWTh	PB 0406	Livergood
		003	10:30	MTWTh	PB 0303	Emblom
		004	11:30	MTWTh	PB 0309	Livergood
		*005	11:30	MTWThF	PB 0408	Murdoch
		006	12:30	MTWTh	PB 0406	Glossop
		007	1:30	MTWTh	PB 0309	Glossop
		e008	8:30-10:20	MW	PB 0302	Morgan

\*8-week course.

001	8:30	MTWTh	PB 0314	Stanley
002	9:30	MTWTh	PB 0314	Violette
003	10:30	MTWTh	PB 0314	Stanley
004	11:30	MTWTh	PB 0314	Violette
005	12:30	MTWTh	SL 1210	Suess
e006	6:30-8:20	M W	PB 0314	Ireland

#### 254-4 Philosophical Masterpieces [Completion of first-level GSC]

001	8:30	MTWTh	PB 0406	Keene
002	9:30	MTWTh	PB 0309	Keene
*003	10:30	MTWThF	PB 0302	Murdoch
e004	6:30-8:20	M W	PB 0302	Morgan
e005	6:30-8:20	T Th	PB 0302	Morgan

#### 315-3 Studies in Biography [Completion of second-level GSC]

*001	12:30	MTWTh	PB 0412	Steinman
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#### 335-3 Studies in Short Fiction [Completion of second-level GSC]

*001	9:30	MTWTh	PB 2409	Bailey
*002	10:30	MTWTh	PB 2409	Spitzmiller
*003	11:30	MTWTh	PB 2409	Stanley

#### 354a-3 History of the Theater

001	8:30	M W F	PB 0304	Vilhauer
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#### 354b-3 History of the Theater

001	11:30	M W F	PB 2306	Birdman
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#### 363a-3 Philosophy of Science (Same as GSA 363a) [Completion of second-level GSC]

001	9:30	MT Th	PB 0303	Emblom
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#### 370b-3 American Art

001	9:30	M W F	LB 0044	Hilberry
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#### 375a-3 Ethics [Completion of second-level GSC]

001	10:30	MT Th	PB 0406	Glossop
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### ORGANIZATION AND COMMUNICATION OF IDEAS (GSD)

#### 100-1 Study Skills

001	11:30	T Th	PB 1311	
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401	11:30	T Th	Arranged	
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#### 101a-3 English Composition

001	8:30	M T W	PB 2413	Butler
002	8:30	M T W	PB 2414	Sullivan
003	9:30	M T W	PB 2413	Suess
004	9:30	M T W	PB 2414	Ziegler

\*8-week course.



101a-3	English Composition	005	10:30	M T W	PB 2414	Schmidt
		006	10:30	M T W	PB 2415	Suess
		007	10:30	M T W	PB 3409	Butler
		008	11:30	M T W	PB 2413	Spitzmiller
		009	11:30	M T W	PB 2414	W. Meyer
		010	11:30	M T W	PB 2415	Ragain
		011	12:30	M T W	PB 2413	W. Meyer
		012	12:30	M T W	PB 2414	Pennell
		013	1:30	M T W	PB 2413	Spitzmiller
		e014	8:30-9:45	T Th	PB 2413	Ragain
		e401	6:30-7:45	M W	Arranged	Stafford
		001	8:30	M T W	PB 2415	W. Meyer
		002	8:30	M T W	PB 3409	Ziegler
		003	9:30	M T W	PB 2415	Butler
101b-3	English Composition [101a]	004	9:30	M T W	PB 3409	Pennell
		005	10:30	M T W	LB 0051	Violette
		006	10:30	M T W	PB 1311	Pennell
		007	11:30	M T W	PB 3409	Ziegler
		008	11:30	M T W	LB 0051	Stafford
		009	12:30	M T W	PB 2415	Schmidt
		e010	8:30-9:45	M W	PB 2415	Ireland
		e401	8:30-9:45	M W	Arranged	Stafford
		001	8:30	M W	PB 0303	White
		002	8:30	F T Th	PB 2304	White
		003	9:30	F M	PB 2304	White
		004	9:30	M W	PB 0307	White
		005	9:30	F T Th	PB 1414	White
		006	9:30	F M	PB 2304	White
103-3	Oral Communication of Ideas	007	10:30	M W	PB 2304	White
		008	10:30	F T Th	PB 2304	White
		009	10:30	M W	CB 1015	Stope
		010	10:30	F T Th	PB 1414	Stope
		011	10:30	F M	CB 1015	Stope
		012	10:30	M W	PB 1414	Stope
		013	10:30	F T Th	PB 1015	Stope
		014	10:30	F M	PB 2304	Stope

		009	11:30	M W F	CB 1015 PB 2304	Robinson
		010	11:30	T Th F	CB 1015 PB 2304	Robinson
		011	11:30	M W F	PB 3102 PB 2405	Kluth
		012	11:30	T Th F	PB 3102 PB 2405	Kluth
		013	12:30	M W F	PB 3409 PB 2304	Robinson
		014	12:30	T Th F	PB 3409 PB 2304	Robinson
		015	1:30	M W F	PB 3409	Wiltz
		016	1:30	M W F	PB 3422 PB 2304	Salden
		017	1:30	T Th F	PB 3422 PB 2304	Salden
		018	2:30	M W F	PB 3409	Mulvany
112a-4	Introduction to Mathematics [One year high school algebra and satisfactory ACT score]	001	12:30	MT ThF	SL 2224	
		002	1:30	MT ThF	SL 2224	
114a-5	College Algebra [One and one-half years algebra and one year plane geometry]	001	8:30	MTWThF	SL 1225	
		002	9:30	MTWThF	SL 1225	
		003	12:30	MTWThF	SL 1225	
		004	1:30	MTWThF	SL 1225	
114c-4	Trigonometry [114a]	001	10:30	MT ThF	SL 1225	
		002	11:30	MT ThF	SL 1225	
114d-4	Statistics [114a]	001	8:30	MT ThF	SL 1224	
		002	9:30	MT ThF	SL 1224	
		003	2:30	M T W Th	PB 3314 PB 3412	
		e004	6:30-8:20	M W	PB 3412	
123-9	Elementary French	001	8:30-10:20 8:30	MWThF T	PB 0408 PB 0408	
126-9	Elementary German	001	8:30 10:30	MTWTh MTWThF	PB 0412 PB 0412	

126c-3	Elementary German [126b, consent of chairman] July 28-August 22	001	8:30 10:30	MTWTh MTWThF	PB 0412 PB 0412
140-9	Elementary Spanish	001	9:30-11:20 9:30	MT ThF W	PB 0413 PB 0413
HEALTH AND PHYSICAL DEVELOPMENT (GSE)					
116a-1	Beginning Swimming	*201	8:30-10:00	T Th	Alton YMCA Brick
116b-1	Intermediate Swimming	*201	8:30-10:00	T Th	Alton YMCA Brick
117c-1	Social Dance Both sections meet first ten weeks only.	001	1:30	M T W	CB 1024 Martin
		002	2:30	M T W	CB 1024 Martin
117d-1	Beginning Contemporary Dance Meets first ten weeks only.	001	11:30	M T W	CB 1024 Martin
117e-1	Intermediate Contemporary Dance Meets first ten weeks only.	001	11:30	M T W	CB 1024 Martin
118a-1	Archery	*001	9:30	M T W	PB N Patio Archangel
		*002	10:30	M T W	PB N Patio Martin
118d-1	Bowling	001	12:30	M W	UC 0017 Showers
		002	12:30	T Th	UC 0017 Showers
		003	1:30	M W	UC 0017 Showers
118e-1	Golf Both sections meet first ten weeks only.	001	8:30	M W F	PB N Patio Brick
		002	9:30	M W F	PB N Patio Brick
118h-1	Tennis	*001	9:30	M T W	PB W Patio Martin
118i-1	Volleyball	*001	11:30	M W F	PB N Patio Martin
118l-1	Sailing [Swimming proficiency]	001	7:30-9:20	M W	Tower Lake Archangel
118m-1	Fencing	*001	8:30	M T W	CB 1024 Martin
118o-1	Boating and Canoeing [Swimming proficiency] Meets first ten weeks only.	001	7:30-9:20	T Th	Tower Lake Archangel

\*8-week course.



## 118s-1      Gymnastics (Workshop)

June 9-17

201      9:00-4:00      MTWThF      GYM 102      Luedke

## 118w-1      Track and Field

\*401      3:30      M W F      Arranged      Whitted

## 201-3      Healthful Living

001      11:30      M W F      SL 1105      Brick

401      10:30      M W F      Arranged      Whitted

## ACCOUNTING (ACCT)

## 230-4      Accounting Principles [Sophomore standing]

001      8:30-10:20      M W      PB 2304  
002      10:30-12:20      T Th      PB 2304  
e003      6:30-8:20      M W      PB 2304

## 231-4      Financial Accounting Analysis [230]

001      12:30-2:20      T Th      PB 2304  
e002      8:30-10:20      T Th      PB 2304

## 330-4      Managerial Cost and Budgeting [231]

001      8:30-10:20      M W      PB 3303

## 341-4      Cost Accounting Principles [231]

001      10:30-12:20      M W      PB 2304

## 351a-4      Accounting Theory and Problems I [231]

001      12:30-2:20      M W      PB 2304

## 442-4      Advanced Cost Accounting [341]

e001      6:30-8:20      T Th      PB 2304

530-4      Conceptual Framework of Accounting  
[MBA students only]

e001      6:30-10:20      M      PB 3303

## ANTHROPOLOGY (ANTH)

## 305a-3      Peoples and Cultures of the World: North America

001      9:30      TWTh      PB 2403      Schusky

483-3 to 18      Individual Study in Anthropology [Consent of  
instructor]

001      Arranged

## ART (ART)

## 100a-5      Basic Studio

001      10:30-12:20      MTWThF      SL 0218      Davis  
002      1:30-3:20      MTWThF      SL 0218      M. Smith

\*8-week course.

100b-5	Basic Studio [100a]	001	8:30-10:20	MTWThF	SL 0218	Huntley
100c-5	Basic Studio [100b]	001	8:30-10:20	MTWThF	SL 0225	Huntley
202a-5	Intermediate Studio [100-15]	001	8:30-10:20	MTWThF	Wagner	Marcell
202b-5	Intermediate Studio [100-15]	001	10:30-12:20 10:30-12:20	M W F T Th	SL 0210 SL 0217	Huntley
300a-4	Art Education	*001	8:30-10:20	MTWTh	SL 0209	Buddemeyer
300b-4	Art Education [300a]	*001	10:30-12:20	MTWTh	SL 0209	Buddemeyer
310a,b,c-4	Painting [202-5]	001	3:30-5:20	MTWTh	Wagner 198	M. Smith
325a,b,c-4	Studio [By permit only]	*001	Arranged	MTWTh	SL 0209	Buddemeyer
358a,b,c-4	Prints [202b]	001	12:30-2:20	MTWTh	SL 0210	Richardson
393a,b,c-4	Sculpture [202a]	001	10:30-12:20	MTWTh	Wagner	Marcell
401-4	Research in Painting [310-8]	001	Arranged	Wagner 198	M. Smith	
405-4	Studio in Sculpture [393-8]	001	Arranged	Wagner	Marcell	
410-4	Research in Prints [358-8]	001	Arranged	SL 0210	Richardson	
420-4	Research in Pottery [305-8]	*001	Arranged	Wagner	Cannon	
441-4	Studio in Drawing	001	8:30-10:20	MTWTh	SL 0217	Davis
483-3	Research in Art History [By permit only]	001	Arranged			Hilberry
501-4	Graduate Painting	001	Arranged	Wagner 198	M. Smith	
502-4	Graduate Sculpture	001	Arranged	Wagner	Marcell	
511-4	Graduate Prints	001	Arranged	SL 0210	Richardson	
520-4	Graduate Ceramics	*001	Arranged	Wagner	Cannon	
571-3	Readings in Art History [By permit only]	001	Arranged			Hilberry

\*8-week course

## BIOLOGY (BIOL)

485-4	Ichthyology	*001	8:30 12:30-4:20	T Th T Th	SL 3225 SL 3210	Thomerson
523-3	Plant Geography	*001	9:30	TWThF	SL 3225	Kumler

## BUSINESS ADMINISTRATION (B A)

543-4	The Administrator [540, MBA students]	e001	6:30-10:20	Th	PB 3305	
544-4	Methodology of Business Research [MBA students, QM 510, 511, MOS 580]	e001	6:30-10:20	Th	PB 3314	
549-4	Corporate Policy Formulation and Administration [MBA students, final quarter standing]	e001	6:30-10:20	M	PB 3314	

## BUSINESS COMMUNICATIONS (B C)

390-4	Business Communications [GSD 101b, concurrent registration in GBA 340]	e001	6:30-8:20	T Th	PB 3315	
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## BUSINESS EDUCATION (BS ED)

201a-3	Typewriting	001	Arranged		PB 3415	Patsloff
201b-3	Typewriting [201a]	001	Arranged		PB 3415	Patsloff
201c-3	Typewriting [201b]	001	Arranged		PB 3415	Patsloff
221b-4	Shorthand and Transcription [221a]	001	Arranged		PB 3417	Palmer
221c-4	Shorthand and Transcription [221b]	001	Arranged		PB 3417	Palmer
304-3	Advanced Typewriting [201c]	001	Arranged		PB 3415	Patsloff
324a-4	Advanced Shorthand and Transcription [221c]	001	Arranged		PB 3417	Palmer
415-6	Supervised Business Experience and Related Study (Workshop) June 16-August 1 First and seventh weeks in class; second through sixth weeks full time in office.	e001	5:30-9:20	T Th	PB 3316	McElroy

\*8-week course.



417-4	Applications and Fundamentals of Data Processing in Business Education (Workshop) [MOS 280] June 16-27	001	8:30-12:20	MTWThF	PB 3314	Eirich
500-4	Principles and Problems of Business Education (Workshop) June 16-July 11	001	1:30-3:20	MTWThF	PB 3305	Maedke
502-4	Introduction to Research in Business Education (Workshop) June 16-August 8	001	12:30	MTWThF	PB 3305	Maedke
505-4	Workshop in Business Education Section 001 meets June 16-27; section 002 meets June 30-July 11; section 003 meets July 14-25; sections 004 and 005 meet July 28-August 8.	001 002 003 004 005	8:30-12:20 8:30-12:20 8:30-12:20 8:30-12:20 8:30-12:20	MTWThF MTWThF MTWThF MTWThF MTWThF	PB 2411 PB 2411 PB 3316 PB 2411 PB 3305	Palmer Patsloff Maedke Patsloff Eirich
507-4	Teaching Data Processing (Workshop) [417] July 14-25	001	8:30-12:20	MTWThF	PB 3305	Eirich
510-4	Improvement of Instruction in Secretarial Subjects (Workshop) June 30-July 11	001	8:30-12:20	MTWThF	PB 3316	Palmer
590-2 to 5	Readings in Business Education [Consent of instructor]	001	Arranged			Maedke
591-2 to 5	Individual Research in Business Education [Consent of instructor]	001	Arranged			Maedke
599-1 to 9	Thesis [Consent of instructor]	001	Arranged			Maedke
CHEMISTRY (CHEM)						
111a-5	Chemical Principles and Inorganic Chemistry [High school algebra]	001	8:30 8:30 8:30-11:20	MW F T Th	SL 3114 PB 0303 SL 2215	
		002	8:30 8:30 8:30-11:20	MW F Th T	SL 3114 PB 0303 SL 2215	
111c-5	Chemical Principles and Inorganic Chemistry [111b]	e001	5:30-6:45 MW	MW SL 2215	SL 2224	
		e002	5:30-6:45 2:30-5:20	MW MW	SL 2224 SL 2215	

001	11:30	M W F	SL 2224
	9:30-12:20	T Th	SL 2217
002	11:30	M W F	SL 2224
	1:30-4:20	M W	SL 2217

311-3 Inorganic Chemistry [111c]

*001	9:30	MT ThF	SL 2224
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446-4 Qualitative Organic Analysis [305b or 341c]

e001	5:30	M W	SL 0226
	6:30-9:20	M W	SL 2216

460-5 Theoretical Chemistry [235, 305b, or 341c, and one year of physics or consent of instructor]

*001	8:30	MTWThF	SL 2224
	9:30-1:20	W	SL 2217

496-2 to 4 Chemical Problems [Consent of chairman]

001	Arranged		
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575-1 Graduate Seminar

001	Arranged		
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597-3 to 15 Research and Thesis

001	Arranged		
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COUNSELOR EDUCATION (C ED)

305-4 Educational Psychology [By permit only]

*001	8:00-10:20	M W	PB 1402
*e002	5:30-8:20	M W	PB 0304

420-4 Educational Statistics

*001	11:30-2:00	M W	PB 1311
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422-4 Educational Measurements I

*001	8:00-10:20	T Th	PB 3315
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515-4 Psychological Aspects of Education

001	1:30-3:20	M W	PB 0408
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537-4 Counseling Theory and Practice I

001	1:30-3:20	T Th	PB 0408
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538-4 Counseling Theory and Practice II

*001	1:00-3:20	T Th	Pract Ctr
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541-4 Occupational Information and Guidance

001	8:00-10:20	M W	SL 3225
			SL 1224

542-4 Basic Principles of Guidance

*001	10:30-1:00	T Th	PB 0304
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543-4 Guidance Through Groups

e001	5:30-8:20	W	PB 2406
e002	5:30-8:20	T	Pract Ctr

\*8-week course.

545j-4	Seminar in Guidance: Organization and Administration	*001	1:30-4:00	T Th	Pract Ctr	Davis
562a-4	Child Development in Education	*001	11:30-2:00	T Th	PB 0411	Troyer
562b-4	Adolescent Development in Education	e001	5:30-8:20	T	PB 0304	Troyer
575c-4	Practicum in Secondary Guidance [By permit only]	001	1:00-4:00	T	Pract Ctr	Moore
		002	1:00-4:00	T	Pract Ctr	
		003	1:00-4:00	T	Pract Ctr	
ECONOMICS (ECON)						
200-4	Macroeconomics [Sophomore standing]	001	8:30-10:20	T Th	PB 3303	
		e002	6:30-8:20	M W	PB 2405	
201-4	Microeconomics [Sophomore standing]	001	12:30-2:20	T Th	PB 3315	
		e002	8:30-10:20	M W	PB 2405	
300-4	Monetary Systems and Economic Policy [200]	e001	6:30-8:20	T Th	PB 2405	
422-4	Introduction to Economic Development [200]	e001	6:30-8:20	M W	PB 2403	
EDUCATION ADMINISTRATION (ED AD)						
355-4	Philosophy of Education [C Ed 305, consent of undergraduate teacher education advisement office]	001	9:30-11:20	M W	CB 0186	Curry
		*002	12:00-2:20	M W	PB 0409	Curry
		003	1:30-3:20	T Th	SL 0226	Aranda
		e004	5:30-7:20	T Th	PB 3302	Aranda
420-4	Legal Basis of American Education	*001	7:30-10:20	M	PB 3313	Ackerlund
			7:30-9:20	T	PB 3313	
431-4	History of Education in the United States	*001	1:30	MTWThF	PB 2412	
434-4	Administrator's Workshop	*001	12:30-2:20	T	PB 3313	Andree
			12:30-3:20	W	PB 3313	
456-4	School Supervision (Workshop-section 001 only) Section 001 meets July 17-August 13.	001	8:30-10:20	MTWThF	LB 0042	Boss
		*e002	5:30-7:20	WTh	PB 2412	Helsel
480-4	Backgrounds of Urban Education	*001	10:00-12:20	M W	PB 1309	

\*8-week course.



500-4	Research Methods (Workshop-sections 002 and 003 only) Section 001 see Workshops and Special Programs; section 002 meets June 18-July 16; section 003 meets July 17-August 13.	*001 002 003 *004 *005 *e006	7:30-9:45 8:30-10:20 8:30-10:20 11:30-1:20 12:30-1:20 5:30-7:20	M W MTWThF MTWThF T Th M W M W	PB 1302 LB 0051 LB 0051 PB 0413 LB 0051 PB 2410	Swerdlin Jordan Jordan Wehling Schnabel Pierce
501-4	Seminar in Educational Administration	*001	2:30-4:20 2:30-5:20	M T	PB 3313 PB 3313	Helsel
503-4	Seminar in Philosophy of Education Section 001 meets June 3-16; section 002 see Workshops and Special Programs.	001 *002	8:00-11:30 2:30-4:45	MTWThF WTh	PB 1302 PB 2410	Hofmann Curry
511a-4	Internship Practicum [Consent of instructor and faculty chairman]	*001	Arranged			
520-4	Illinois School Law	*001	10:30-12:20 9:30-12:20	W Th	PB 3313 PB 3313	Wilkins
524-4	School Administration	*001	1:30-3:20 1:30-4:20	W Th	PB 3316 PB 3316	Krehniak
525-4	Personnel Administration	*001	7:30-10:20 7:30-9:20	W Th	PB 3313 PB 3313	Ackerlund
534b-4	School Business Administration	*001	12:30-2:20 12:30-3:20	M T	PB 3313 PB 3316	Wilkins
551-4	Community Junior College Curriculum (Workshop) August 11-22 See Workshops and Special Programs.	001	8:30-4:00	MTWThF	PB 3313	Boss
554-4	Contrasting Philosophies of Education (Workshop Section 002 only) Section 002 meets June 18-July 16.	*001 002	10:00-12:15 11:30-1:20	M W MTWThF	PB 1302 PB 2412	Lee Hofmann
556-4	Seminar in Educational Supervision	*001	12:30-2:20 12:30-3:20	Th F	PB 3313 PB 3313	Wheat
560-4	Curriculum	*001	2:30	MTWThF	PB 0304	Smyers

\*8-week course.

563-4	Workshop in School Public Relations	*e001	4:30-7:20 4:30-6:20	T W	PB 2409 PB 2409	Andree
575a-4	Individual Research (Curriculum) [Consent of instructor and faculty chairman]	001	Arranged			
575b-4	Individual Research (Supervision) [Consent of instructor and faculty chairman]	001	Arranged			
575c-4	Individual Research (Buildings) [Consent of instructor and faculty chairman]	001	Arranged			
575d-4	Individual Research (Finance) [Consent of instructor and faculty chairman]	001	Arranged			
575e-4	Individual Research (School Law) [Consent of faculty chairman]	001	Arranged			
575f-4	Individual Research (Comparative Education) [Consent of instructor and faculty chairman]	001	Arranged			
575g-4	Individual Research (History of Education) [Consent of instructor and faculty chairman]	001	Arranged			
575h-4	Individual Research (Philosophy of Education) [Consent of instructor and faculty chairman]	001	Arranged			
575j-4	Individual Research (Administration) [Consent of instructor and faculty chairman]	001	Arranged			
575k-4	Individual Research (Elementary Administration) [Consent of instructor and faculty chairman]	001	Arranged			
596-5 to 9	Independent Investigation [Consent of instructor and faculty chairman]	001	Arranged			
597-1 to 3	Thesis [Consent of instructor and faculty chairman]	001	Arranged			

\*8-week course.

# ELEMENTARY EDUCATION (ED EL)

314-4	Elementary School Methods [Ed Ad 355, consent of undergraduate teacher education advisement office] Section 001 (first line) and section 002 (first line) meet June 18-July 25; section 001 (second line) and section 002 (second line) meet July 28-August 22; sections 001 and 002 are combined from June 18-July 25. Classroom instruction, observation, and professional laboratory experiences arranged by instructor.	001	9:30-11:20	MTWThF	PB 3102	Steinbrook
		002	9:30-10:20	MTWTh	PB 3102	Steinbrook
			9:30-10:20	MTWThF	PB 3102	Jordan
			10:30-11:20	MTWTh	PB 3102	Jordan
337-4	Reading in the Elementary School	001	8:30-10:20	T Th	PB 0403	Starr
		002	1:30-3:20	T Th	PB 0403	Starr
350d-8 to 12	Kindergarten-Primary Student Teaching [316, consent of student teaching office]	001	Arranged			
350e-4 to 8	Advanced Kindergarten-Primary Student Teaching	001	Arranged			
351d-8 to 16	Elementary Student Teaching [314]	001	Arranged			
351e-4 to 8	Advanced Elementary Student Teaching	001	Arranged			
413-4	Children's Literature	*001	12:30	MTWThF	PB 2409	Carpenter
415-4	Improvement of Instruction on Arithmetic in the Elementary Schools	*001	7:30	MTWThF	PB 2409	
442-4	Science for the Elementary Teacher	*001	8:30	MTWThF	PB 0411	Bliss
		*002	2:30	MTWThF	PB 0411	
480-4	Backgrounds of Urban Education	*001	10:00-12:20	M W	PB 1309	
505-4	Improvement of Reading Instruction	*001	11:30	MTWThF	PB 0403	Bear
507-4	Readings in Reading	001	Arranged			Bear
509-4	Practicum in Reading	001	Arranged			Bear

\*8-week course.



521-4	Diagnosis and Correction of Reading Disabilities [505, consent of instructor] Student enrolls for lecture and one clinic.	*Lect A *Clinic 1 *Clinic 2 *Clinic 3	10:30 8:30 9:30 11:30	MTWThF MTWThF MTWThF MTWThF	PB 0403 PB 0405 PB 0405 PB 0405	Bear
541-4	Curriculum Problems in Elementary School Science	*001	10:30	MTWThF	PB 0411	Bliss
542-4	Language Arts in the Elementary School	*e001	5:30-7:20	T Th	PB 0303	Steinbrook
543-4	Teaching the Social Studies in the Elementary School	*001	1:30-3:45	M W	PB 1302	Carpenter
559-4	Workshop in Instructional Leadership in Elementary Education	*001	10:00-12:20	T Th	PB 1309	
561-4	Elementary School Curriculum See Workshops and Special Programs.	*001	12:30-2:45	T Th	LB 0051	Comer
575a-4	Individual Research (Curriculum) [Consent of instructor and faculty chairman]	001	Arranged			
575b-4	Individual Research (Supervision) [Consent of instructor and faculty chairman]	001	Arranged			
575c-4	Individual Research (Language Arts) [Consent of instructor and faculty chairman]	001	Arranged			
575d-4	Individual Research (Science) [Consent of instructor and faculty chairman]	001	Arranged			
575e-4	Individual Research (Reading) [Consent of instructor and faculty chairman]	001	Arranged			
575f-4	Individual Research (Social Studies) [Consent of instructor and faculty chairman]	001	Arranged			
575g-4	Individual Research (Elementary Education) [Consent of instructor and faculty chairman]	001	Arranged			

\*8-week course.

575h-4	Individual Research (Arithmetic) [Consent of instructor and faculty chairman]	001	Arranged		
575j-4	Individual Research (Problems in Kindergarten-Primary) [Consent of instructor and faculty chairman]	001	Arranged		
575k-4	Individual Research (Elementary Administration) [Consent of instructor and faculty chairman]	001	Arranged		
596-5 to 9	Independent Investigation [Consent of instructor and faculty chairman]	001	Arranged		
597-1 to 3	Thesis [Consent of instructor and faculty chairman]	001	Arranged		
EDUCATION SECONDARY (ED S)					
315-4	High School Methods [Ed Ad 355] All students will enroll for the lecture and one section of arranged laboratory-field experience. All sections meet two days per week arranged.	Lect A	11:30-1:20	M	PB 0304
		001	8:00-12:00	Arranged	Schnabel
		002	8:00-12:00	Arranged	Wilson
		003	8:00-12:00	Arranged	Wilson

352d-8 to 16 Secondary Student Teaching  
002 through 025 Arranged

002	Art	013	History
003	Biology	016	Journalism
004	Business	017	Mathematics
005	Chemistry	018	Music
006	Economics	019	Physical Education
007	English	020	Physics
008	Foreign Language	021	Sociology
009	General Science	022	Social Studies
010	Geography	023	Speech
011	Government	024	Library Service
012	Health Education	025	Psychology

352e-4 to 8 Advanced Secondary Student Teaching  
002 through 025 Arranged  
See listing under 352d

407-4	The Junior High School	*001	12:30	MTWThF	PB 2410	Hileman
480-4	Backgrounds of Urban Education	*001	10:00-12:20	M W	PB 1309	
505-4	Improvement of Reading Instruction	*001	11:30	MTWThF	PB 0403	Bear
507-4	Readings in Reading	001	Arranged			Bear
508-4	Seminar: Trends in Selected Areas in Secondary Schools	*e001	5:30-8:20 5:30-7:20	M W	PB 0307 PB 0307	Wehling
509-4	Practicum in Readings	001	Arranged			Bear
521a-4	Diagnosis and Correction of Reading Disabilities [Consent of instructor] Student enrolls for lecture and one clinic.	*Lect A *Clinic 1 *Clinic 2 *Clinic 3	10:30 8:30 9:30 11:30	MTWThF MTWThF MTWThF MTWThF	PB 0403 PB 0405 PB 0405 PB 0405	Bear
562-4	The High School Curriculum	*001	9:30	MTWThF	PB 0411	Smyers
564-4	High School Principalship	*001	10:30-12:20 9:30-12:20	M T	PB 3313 PB 3313	Wheat
575a-4	Individual Research (Curriculum) [Consent of instructor and faculty chairman]	001	Arranged			
575b-4	Individual Research (Supervision) [Consent of instructor and faculty chairman]	001	Arranged			
575c-4	Individual Research (Language Arts) [Consent of instructor and faculty chairman]	001	Arranged			
575d-4	Individual Research (Science) [Consent of instructor and faculty chairman]	001	Arranged			
575e-4	Individual Research (Reading) [Consent of instructor and faculty chairman]	001	Arranged			
575f-4	Individual Research (Social Studies) [Consent of instructor and faculty chairman]	001	Arranged			

\*8-week course.



575g-4	Individual Research (Secondary Education) [Consent of instructor and faculty chairman]	001	Arranged			
575h-4	Individual Research (Higher Education) [Consent of instructor and faculty chairman]	001	Arranged			
575j-4	Individual Research (Junior College) [Consent of instructor and faculty chairman]	001	Arranged			
591-4	Workshop in Current Problems in Secondary Education Section 001 meets July 7-18. See Workshops and Special Programs.	001 *002	8:30-4:00 12:30-3:00	MTWThF M W	LB 0042 PB 1309	Hileman Swerdlin
596-5 to 9	Independent Investigation [Consent of instructor and faculty chairman]	001	Arranged			
597-1 to 3	Thesis [Consent of instructor and faculty chairman]	001	Arranged			
<b>ENGLISH (ENG)</b>						
300-4	Principles of English Grammar [Completion of second-level GSC]	001	9:30	MTWTh	PB 2410	Van Syoc
302a-4	Survey of English Literature to 1550 [Completion of second-level GSC]	001	8:30	MTWTh	PB 2410	Duncan
302b-4	Survey of English Literature 1550-1750 [Completion of second-level GSC]	001	10:30	MTWTh	PB 2410	Hoyenga
302c-4	Survey of English Literature after 1750 [Completion of second-level GSC]	e001	8:30-10:20	M W	PB 0303	Lawrence
309a-4	Survey of American Literature to 1860 [Completion of second-level GSC]	*001	11:30	MTWThF	PB 2410	Havens
309b-4	Survey of American Literature since 1860 [Completion of second-level GSC]	*001	8:30	MTWThF	PB 2409	Bailey
365-4	Shakespeare [Completion of second-level GSC]	*001	9:30	M W F T Th	PB 0403 PB 1302	Murphy

\*8-week course.

390-3	Advanced Composition [Completion of second-level GSC]	*001	9:30-11:20	M F	PB 1304	Havens
391-3	Usage in Spoken and Written English [Completion of second-level GSC]	*001 *002 *e003	8:30 1:30 6:30-8:20	MTWTh MTWTh M W	PB 1412 PB 0412 PB 0303	Duncan Steinman Lawrence
420a-4	American Poetry before 1900 [309a or b]	*001	12:30	MTWThF	PB 0408	Joost
421a-4	English Poetry: Early Romantics [Junior standing, completion of second-level GSC]	*001	11:30	MTWThF	PB 2403	Ades
438-4	Intellectual Backgrounds of American Literature [309a or b]	*001	11:30	MTWThF	PB 2406	Zanger
443-4	Victorian Prose [302c]	*001	8:30	MTWThF	PB 2406	Hoyenga
468-4	American Drama [309a or b]	*001	12:30	MTWThF	PB 2406	Havens
504-4	Advanced English Syntax [Graduate standing]	*001	11:30	MTWThF	SL 2231	Van Syoc
518-4	Studies in English Literature 1885-1914: Conrad [Graduate standing]	*001	10:30	MTWThF	PB 3317	Duncan
521-4	Studies in Victorian Poetry: Arnold [Graduate standing]	*001	12:30	MTWThF	SL 2231	Going
536-4	Studies in Later 19th Century American Writers: Whitman [Graduate standing]	*001	9:30	MTWThF	PB 3317	Zanger
537-4	Studies in 20th Century American Writers: Hemingway [Graduate standing]	*001	11:30	MTWThF	PB 3317	Joost
585-4	Teaching College Composition [By permit only]	*001	12:30-2:20 12:30	M T W	PB 3317 PB 3317	Murphy
<b>FINANCE (FIN)</b>						
320-4	Corporation Finance [Acct 231, Econ 200, 201]	001 e002	10:30-12:20 8:30-10:20	T Th M W	PB 3393 PB 3316	
523-4	Financial Management [520]	e001	6:30-10:20	T	PB 3314	

\*8-week course.

**FOREIGN LANGUAGES (F L)**

**GENERAL FOREIGN LANGUAGE**

486-8      Materials and Methods for Teaching Foreign Languages [One quarter of any 300-level foreign language course or consent of chairman]

**FRENCH (FR)**

123-3      French Conversation [Concurrent enrollment in GSD 123-9]

**GERMAN (GER)**

126-3      German Conversation [Concurrent enrollment in GSD 126-9]

126c-1     German Conversation [Concurrent enrollment in GSD 126c] July 28-August 22

**SPANISH (SPAN)**

140-3      Spanish Conversation [Concurrent enrollment in GSD 140-9]

**GENERAL BUSINESS ADMINISTRATION (GBA)**

140-4      Introduction to Business

340-4      Organizational Behavior and Decision-Making [140, GSB 201a,c, GSB 103a]

341-4      Organizational Problems [340]

440-4      Legal Environment of Business [140]

**GEOGRAPHY (GEOG)**

308-3      Introduction to Geographic Methods

\*8-week course.

\*001      9:30-11:20      MTWThF      PB 2406      Pellegrino

001      9:30-11:20  
10:30      T      PB 0408  
Th      PB 0408

001      8:30-10:20  
9:30      F      PB 0303  
W      PB 0303

001      8:30-10:20  
9:30      F      PB 0412  
W      PB 0412

001      10:30-12:20  
11:30      W      PB 0412  
M      PB 0413

001      11:30      MTWTh      PB 2405  
e002      6:30-8:20      T Th      PB 3313

e001      6:30-8:20      T Th      PB 2403

001      12:30-2:20      MW      PB 3314

001      10:30-12:20      MW      PB 3315

001      11:30      MTWTh      PB 1412      Lossau



424-4	Regional Problems in Conservation June 16-July 11 [Consent of Dr. Kazeck]	201	12:30-4:20	MTWThF	ANA 110	
461b-3	Advanced Regional Geography: Anglo-America	*001	12:30	MTWTh	PB 1412	Baker
462b-3	Advanced Regional Geography: Europe	*001	9:30	MTWTh	PB 1412	Guffy
470e-4	Urban Planning—Internship	001	Arranged		Tract 14	Lossau
515-6	Field Course Four Saturday field trips.	*e001	6:30-8:20	T Th	PB 1412	Guffy
521-3	Seminar in Economic Geography	e001	6:30-9:20	W	PB 1412	Koepke
527-4	Seminar in Urban and Regional Planning	e001	6:30-8:20	MW	Tract 14	Lossau
530-2 to 4	Independent Studies in Geography	001	Arranged			Kazeck
599-2 to 9	Thesis	001	Arranged			Kazeck
GOVERNMENT (GOVT)						
200-4	Introduction to Political Science	001	10:30	MTWTh	PB 2405	Stahnke
320-4	Introduction to Public Administration [GSB 203a]	001	10:30	MTWTh	PB 0307	
345b-4	American Political Parties and Interest Groups [GSB 203a]	001	11:30	MTWTh	PB 0307	
350c-4	Soviet Political System [200]	001	12:30	MTWTh	PB 0307	Stahnke
370-4	Introduction to International Relations [200]	001	9:30	TWThF	PB 0307	Feeney
422-4	Public Financial Administration [320]	001	11:30	MTWTh	PB 0406	McHargue
449-4	Topics in American Politics [GSB 203a]	001	1:30-3:20	T Th	PB 0406	Ellsworth, Stahnke
496-4	American Judicial Behavior [GSB 203a]	001	1:30-3:20	MW	PB 0406	
585-4	Seminar in Political Theory	e001	5:30-9:20	T	PB 3317	Mace

\*8-week course.

# HEALTH EDUCATION (H ED)

302s-4	Driver Education and Training	*001	10:30	MTWThF	SL 2231	Klein
334s-4	First Aid Additional ten hours arranged.	*001	10:30 10:30	M W F T Th	CB 0194 PB 0312	Archangel
443s-4	Methods and Materials in Driver Education	*001	8:30	MTWThF	PB 0409	Klein
470-3	Workshop in Sex Education for Elementary Teachers July 7-17	001	1:30-5:20	MTWTh	PB 2306	Taylor

## HISTORY (HIST)

100-3	Survey of Ancient History	001	8:30	MT Th	PB 0309	Astour
332c-3	Medieval History [Sophomore standing]	*001	10:30	MTWTh	PB 0309	Steckling
408a-3	History of the Ancient Near East: Earliest Times to 1200 B.C.	*001	9:30	MT Th W	PB 0412 PB 1307	Astour
412c-3	Intellectual History of the United States: 20th Century [GSB 300-9]	*001	8:30	MTWTh	PB 0413	Rosenthal
417b-4	Advanced English History: Constitutional History [GSB 101b,c]	*001	8:30	MTWThF	PB 1414	Haas
426-4	The Revolution and the Constitution [GSB 300a]	*001	12:30	MTWThF	PB 0302	McCurry
437a-3	American Military History: To 1914 [GSB 300-9]	*e001	6:30-8:20	M W	PB 0309	Millett
440c-3	History of American Diplomacy: Since 1945 [GSB 300-9]	*001	10:30	MTWTh	PB 1307	Weiss
458a-4	History of Science: Ancient and Medieval [GSB 101b,c]	*001	11:30	MTWThF	PB 0412	Erickson
500-4	History Seminar [Graduate standing]	*001	2:30-5:00	T Th	PB 3317	Beard
545-3	Problems in Russian History [Graduate standing]	*001	10:30	MTWTh	PB 2413	Santoni

\*8-week course.

INSTRUCTIONAL MATERIALS (IM)

417-4	Audio-Visual Methods in Education Student enrolls in one lecture section, one quiz section, and one hour per week self-instruction.	*Lect A *Lect B *001 *002 *003 *004 *005 *006 *007 *008 *009 *010 *011 *012 *013 *014 *015 *016 *017 *018 *019 *020 *021 *022	9:30-11:00 9:30-11:00 8:30 11:30 1:30 2:30 8:30 9:30 11:30 1:30 2:30 3:30 8:30 11:30 1:30 2:30 8:30 9:30 11:30 1:30 2:30 3:30 8:30 9:30	MW T Th M M M M T T T T W W W W Th Th Th Th Th Th F F	SL 1105 SL 1105 PB 0410	Thota Thota
422-4	Book Selection (Workshop) June 17-30	201	8:30-12:30	MTWThF	ANA 100	Holzberlein
445-4	Preparation of Teacher-Made Audio-Visual Materials [417]	*001 *002 *003	9:30-12:00 9:30-12:00 2:30-5:00	MW T Th MW	PB 0409 PB 0409 PB 0409	Madison Madison Gilligan
510-4	Mass Communications in Education	*001	11:30-2:00	MW	PB 0411	Gilligan
546-4	Integration of Audio-Visual Materials in the Classroom	*001	1:30-4:00	T Th	PB 0409	Gilligan
JOURNALISM (JRNL)						
103-3	News *8-week course.	001	1:30-2:55	T Th	PB 2415	Thiel



391-3	Feature Writing	001	10:30-11:55	T Th	PB 1302	Hasse
MANAGEMENT SCIENCE (MS)						
380-4	Management Systems I [Acct 231]	e001	6:30-8:20	MW	CB 0186	
381-4	Management Systems II [281]	001	12:30-2:20	MW	CB 0186	
588-4	Seminar in Management Systems [513, 583]	e001	6:30-10:20	T	CB 0186	
MARKETING (MKTG)						
370-4	Consumer Behavior [GSB 103a,b, 201c, Econ 201, QM 211]	001 e002	10:30-12:20 8:30-10:20	MW T Th	PB 3303 PB 3303	
371-4	Principles of Marketing Management [370]	001	8:30-10:20	MW	PB 3315	
472-4	Sales Policy and Management [470]	001	10:30-12:20	T Th	PB 3315	
573-4	Marketing Policies [570]	e001	6:30-10:20	W	PB 3303	
578-4	Seminar in Marketing [573]	e001	6:30-10:20	W	PB 3305	
MATHEMATICS (MATH)						
101-4	Fundamental Mathematics	001 002 003	8:30 1:30 2:30	MTWThF MTWThF MTWThF	SL 1210 PB 0314 PB 0314	
150a-4	Elementary Calculus and Analytic Geometry [GSD 114a,c]	001 002	12:30 1:30	MT ThF MT ThF	SL 1224 SL 1224	
150b-4	Elementary Calculus and Analytic Geometry [150a]	001	11:30	MT ThF	SL 1210	
225-4	Programming for Digital Computers [GSD 114a]	001 002 003	10:30 11:30 10:30 10:30-12:20 10:30 11:30	MW MW MW F MW T Th	PB 0304 CB 0186 PB 0304 CB 0186 PB 0304 CB 0186	
252a-4	Calculus and Analytic Geometry [150b]	001	10:30	MT ThF	SL 1210	
252b-4	Calculus and Analytic Geometry [252a]	e001	6:30-8:20	MW	SL 1224	

310-4	The Teaching of Elementary Mathematics [GSD 112a]	*001 8:30 *002 10:30	MTWThF MTWThF	PB 0302 SL 2224
321-4	Elementary Matrix Algebra [150b]	001 10:30	MT ThF	SL 3225
351-4	Multivariable Calculus [252b]	001 8:30	MT ThF	SL 0226
400-3	History of Mathematics [420a or consent of instructor]	*001 11:30	MT ThF	PB 0302
425-3	Theory of Numbers [252b]	*001 1:30	MT ThF	PB 0302
430-4	Projective Geometry [321 or consent of instructor]	*001 9:30	MTWThF	PB 0302
433-3	Theory of Point Sets [252b, 6 hours in courses 300-level or higher]	*001 12:30	MT ThF	SL 3225
520a-3	Modern Algebra [420a concurrent enrollment in 520b]	*001 1:30	MTWTh	PB 0303
520b-3	Modern Algebra [concurrent enrollment in 520a]	*001 2:30	MTWTh	PB 0303
MUSIC (MUS)				
001b-1	University Band [By audition]	001 11:30	M W F	Fjerstad CB 1029
002b-1	University Chorus Meets first six weeks only.	001 2:30	MTWTh	Van Camp CB 1029
010b-1	Class Woodwinds	001 8:30	M W F	Oberlag CB 1029
010c-1	Class Brass	001 9:30	M W F	Fjerstad CB 1029
140a-u 2 or 4	Private Applied Music [By permit only, restricted to major instruments]	001 Arranged		

- |    |             |    |             |    |             |
|----|-------------|----|-------------|----|-------------|
| a. | Violin      | h. | Bassoon     | o. | Tuba        |
| b. | Viola       | i. | Saxophone   | p. | Baritone    |
| c. | Cello       | j. | Percussion  | q. | Voice       |
| d. | String Bass | k. | Piano       | r. | Organ       |
| e. | Flute       | l. | French Horn | s. | Harpsichord |
| f. | Oboe        | m. | Trumpet     | t. | Harp        |
| g. | Clarinnet   | n. | Trombone    | u. | Guitar      |

\*8-week course.

200-3	Fundamentals of Music	*001	8:30	MTWTh	PB 3404	Henderson, Pival
240a-u 2 or 4	Private Applied Music See requirements stated in 140a-u.	001	Arranged			
340a-u 2 or 4	Private Applied Music See requirements stated in 140a-u.	001	Arranged			
411b-3	Choral Literature Meets first six weeks only.	001	10:30	MTWTh	CB 0158	Van Camp
440a-u 2 or 4	Private Applied Music See requirements stated in 140a-u.	001	Arranged			
451-3	Teaching General Classroom Music (Workshop) June 17-July 11	001	1:30-3:20	MTWThF	PB 3404	Joseph
455-4	Elementary Music Education (Workshop) June 17-July 11	001	9:30-11:20	MTWThF	PB 3404	Tulloss
481-2 to 6	Readings in Music Theory [By permit only]	*001	Arranged			Oberlag, Warren
482-2 to 6	Readings in Music History and Literature [By permit only]	*001	Arranged			Henderson, Oberlag, Van Camp, Warren, Tarwater
483-2 to 6	Readings in Music Education [By permit only]	*001	Arranged			Blakely, Joseph, Tarwater
499-1 to 3	Independent Study [By permit only]	*001	Arranged			Oberlag, Tarwater, Van Camp, Warren
501-3	Introduction to Graduate Study [By permit only]	*001	8:30	MTWTh	CB 0194	Blakely

MUSIC

47

\*8-week course.



502a-3	History and Analysis of Musical Style [By permit only]	*001	11:30	MTWTh	PB 3404	Warren
540a-u 2 or 4	Private Applied Music See requirements stated in 140a-u.	001	Arranged			
556-3	Advanced Conducting Meets first six weeks only.	001	Arranged			Susskind
566-1	Instrumental Ensemble [By audition]	001	11:30	M W F	CB 1029	Fjerstad
567-1	Vocal Ensemble [By audition] Meets first six weeks only.	001	11:30	MTWTh	CB 0158	Van Camp
599-3 to 9	Thesis	*001	Arranged			
NURSING (NURS)						
301-8	Nursing I	001	7:00-11:50 1:30-3:20	M W F W Th	Hospital PB 2414	
302-8	Nursing II	001	7:00-11:50 1:30-3:20	T Th M T	Hospital PB 2414	
375-8	Nursing V	001	8:30-4:20 8:30-12:20	M T F	Agency Agency	
382-10	Nursing VI	001	8:30-10:20 7:00-3:30	M F TWTh	SL 2231 Hospital	
385-1 to 4	Independent Study	001	10:30	M	PB 0408	
PHYSICAL EDUCATION (PE)						
312-2 to 6	Playground Leadership	*001	Arranged			Herrold
349-2	Camping Education	*001	3:30	MTW	PB 0302	Martin
350-4	Methods and Materials for Teaching Physical Education Activities in the Elementary School (Workshop - section 002) Section 001 - ten additional hours arranged. Section 002 - meets July 14-August 1.	*001 002	8:00-9:00 9:00-12:00	MTWThF MTWThF	PB 2412 PB 2412	Moehn Moehn

\*8-week course.

404-2 Workshop in Dance for In-Service Teachers  
June 16-27

427-4 Physical Education and Recreation for the  
Handicapped (Workshop) June 16-July 3  
Same as Sp Ed 427-4.

475-4 Individual Research

476-2 to 4 Teaching Athletic Skills (Workshop)  
June 16-June 27

502-4 Foundations of Motor Skills

504-4 Problems in Physical Education

525-4 Readings in Physical Education

PHYSICS (PHYS)

211b-4 University Physics [211a]

212b-1 University Physics Laboratory

300a-4 Introduction to Modern Physics  
[206, or 211, and Math 150b]

300b-1 University Physics Laboratory IV  
[Concurrent enrollment in 300a]

320-4 Special Relativity

415c-4 Nuclear Physics [300a, Math 305]

418-1 Modern Physics Laboratory [300]

420-2 to 5 Special Projects

\*8-week course.

001	9:30-12:00	MTWThF	CB 1024	Carpenter
201	9:00-3:00	MTWThF	GYM 102	Moehn, Tucker
*001	Arranged			Herrold
001	9:30-12:00 1:30-4:00	MTWThF MTWThF	PB S Patio	Guelker, Lee, Gallatin, Brick
*001	10:30	MTWThF	PB 2412	Showers
*001	9:30	MTWThF	PB 2412	Showers
*001	Arranged			Herrold

001	11:30	M W F	SL 1224	Zurheide
	11:30	T Th	SL 1224	
002	11:30	M W F	SL 1224	Zurheide
	11:30	T Th	SL 2224	
001	2:30-5:20	M	SL 1217	Zurheide
002	8:30-11:20	T	SL 1217	Zurheide
001	11:30	MTWThF	SL 3225	Boedeker
001	8:30-11:20	W	SL 0212	
002	1:30-3:20	W	SL 0212	
001	1:30	MT ThF	SL 1210	Kang
001	10:30	MT ThF	SL 1224	Hakeem
001	Arranged		SL 0212	
001	Arranged			

445b-4	X-Ray Crystallography	e001	6:30-8:20	T Th	SL 0226	Walford
530c-3	Electromagnetic Theory	e001	6:30-7:45	M W	SL 0226	Kang
575-2	Graduate Seminar	e001	8:00-8:50	M W	SL 0226	Hakeem
590-1 to 9	Research in Physics (Thesis)	001	Arranged			
NSF SUMMER INSTITUTE SCIENCE AND TECHNOLOGY (SC & T)						
June 23-August 15						
401a-5	Classical Mechanics	001	9:30-10:45	MTWThF	SL 0226	
406a-5	Mathematical Physics for Teachers	001	11:05-12:20	MTWThF	SL 0226	
510-3	Physical and Geometrical Optics	001	1:30-2:45	M W F	SL 0226	
511-2	Optics Laboratory	001	1:30-4:20	T Th	SL 1218	
PSYCHOLOGY (PSYC)						
211a-4	Principles and Methods of Psychology [GSB 201c]	001	1:30-3:20	M W	SL 2212	
211b-4	Principles and Methods of Psychology [211a]	001	1:30-3:20	T Th	PB 2403	
301-4	Child Psychology [GSB 201c]	001 e002	8:30 6:30-8:20	MTWTh M W	PB 2306 PB 1307	
303-4	Adolescent Psychology [GSB 201c]	001	10:30	MTWTh	PB 2306	
305-4	Introduction to Personality Dynamics [GSB 201c]	001	8:30	MTWTh	SL 1105	
307-4	Social Psychology [GSB 201c]	001	1:30-3:20	T Th	PB 1306	Engbretson
311-4	Experimental Psychology: Learning [211b]	001	10:30-12:20	M W	SL 2212	
312-4	Experimental Psychology: Perception [311]	001	10:30-12:20	T Th	SL 2212	
408-4	Theories of Motivation [313]	001	10:30-12:20	T Th	PB 1304	Starr
409-4	History and Systems [311]	001	8:30	MTWTh	CB 1015	





308-3	Statistics for Social Science	001	11:30	TWF	PB 1414	Crowther
340-4	The Family	001	10:30	MTWTh	PB 1412	Taylor
438-4	Sociology of Occupations	001	12:30	MTWTh	PB 2403	Campbell
484-4	Survey Course in Marriage Counseling (Workshop) [Consent of instructor] June 16-July 3	e001	6:30-10:20	MTWTh	PB 1414	Taylor
489b-4	Probation, Classification, and Parole	e001	4:30-6:20	T Th	PB 1412	Humphreys
519-4	Methodological Foundations of Social Science	001	10:30-12:20	M Th	PB 1414	Crowther
596-2 to 12	Readings in Sociology	001	Arranged			Campisi
599-2 to 9	Thesis	001	Arranged			
<b>SPECIAL EDUCATION (SP ED)</b>						
410a-4	Problems and Characteristics of the Emotionally Disturbed Child	*001	8:30	MTWThF	PB 3102	Reinking
410b-4	Problems and Characteristics of the Mentally Retarded Child	*001	1:30	MTWThF	PB 2409	
410g-4	Problems and Characteristics of the Learning Disabled Child	*001	9:30	MTWThF	CB 0194	Reinking
413b-4	Directed Observation of the Educable Mentally Handicapped [By permit only]	*001	Arranged			
414-4	The Exceptional Child	*001	1:30	MTWThF	PB 2410	Zenk
420b-4	Methods and Materials in the Education of the Educable Mentally Handicapped	*001	1:30	MTWThF	PB 2411	
427-4	Physical Education and Recreation for the Handicapped (Workshop) June 16-July 3	201	9:00-3:00	MTWThF	GYM 102	
428-4	Speech Correction for the Classroom Teacher Same as S P & A 428-4.	*001	9:30	MTWThF	PB 1311	Carey

\*8-week course.

496-1 to 8	Readings and Independent Study in Special Education [By permit only]	*001	Arranged		Zenk
501-4	Special Research Problems [By permit only]	*001	Arranged		Shaffer
518-4 to 8	Workshop in Special Education [By permit only] June 16-July 11	001	9:00-12:00	MTWThF	Shaffer PB 3305
577-4 to 12	Practicum in Special Education [By permit only]	*001	Arranged		Reinking
SPEECH PATHOLOGY AND AUDIOLOGY (S P & A)					
200-4	Phonetics	001	8:30	MWThF	O'Leary CB 2012
405a-4	Practicum in Speech and Hearing Therapy Additional hours arranged.	001	8:30	W	Carey CB 2007
428-4	Speech Correction for the Classroom Teacher Same as Sp Ed 428-4.	*001	9:30	MTWThF	Carey PB 1311
TELEVISION-RADIO (TV-R)					
200-4	Survey of Broadcasting Additional hour per week arranged.	001	11:30	MW F	Criminger CB 0194
301-5	Television Production [201]	001	9:30-11:20 1:30-3:20 9:30	T Th W F	Moormann CB 0186 Arranged CB 0186
401-4	Criticism in the Public Arts [Senior standing]	001	12:30-2:20	T Th	Rider CB 0186
THEATER (THEA)					
100-0,2,4, or 6	First Year Theater [Consent of director of theater]	001	Arranged		
200-0,2,4, or 6	Second Year Theater [Consent of director of theater]	001	Arranged		
300-0,2,4, or 6	Third Year Theater [Consent of director of theater]	001	Arranged		
*8-week course.					



400-0,2,4, or 6	Fourth Year Theater [Consent of director of theater]	001	Arranged		
410-3	Children's Theater	001	10:30-12:20	T Th	CB 0194 Branham

Theater 100-0,2,4, or 6 is open to seniors in high school who are in the upper 50 per cent of their class with recommendation from their high school principals.

Students enrolling in 100, 200, 300, or 400 must be advised by the Director of University Theater, Dr. Kluth, CB 1038, before their appointment with General Studies Advisement and before registering. Students will be assigned the following hours according to the amount of credit taken:

Acting/Directing Studio	2:30-4:20	T Th	CB 2015
Design/Technical Theater Studio	2:30-4:20	M W	CB 2015
Costume/Makeup Studio	1:30-2:20	M W F	CB 2015
Business Management Studio	1:30-2:20	T Th	CB 1015
Dance/Stage Movement Studio	10:30-11:20	M WThF	CB 2015
	11:30-12:20	M WThF	CB 2015

VOCATIONAL-TECHNICAL INSTITUTE (VTI)

CCS 107-2	Health and First Aid Two-hour laboratory to be arranged for both sections.	e001	7:00-9:00	T	PB 1307
		e401	7:00-9:00	M	Arranged
CCS 109b-3	Personal Interaction Three-hour laboratory to be arranged.	e401	5:00-7:00	W	Arranged

TECHNICAL AND ADULT EDUCATION (T & AE)

Reading Improvement		e001	4:30-6:20	T	SL 0226
		e002	4:30-6:20	Th	SL 0226









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Edwardsville, Illinois 62025

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# Southern Illinois University *Bulletin*

*Schedule of Classes, Fall Quarter, 1969*  
*Carbondale Campus*





## **This Bulletin**

contains the schedule of classes to be offered by the Carbondale Campus for the fall quarter, 1969, at Carbondale, Southern Acres, and Little Grassy Lake. It also provides information relative to admission, advisement, registration, and fees.

# Schedule of Classes

*Fall, 1969*

*Carbondale Campus*



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# Registration Calendar

## Fall, 1969

### **April 14–October 3.**

Registration period for graduate students.

### **April 16–May 30 and June 24–August 22.**

Advance registration period for all undergraduate students. New students should refer to the Advisement and Registration procedure on page 1 for further procedural information. *All continuing undergraduate students are expected to be registered by August 22.* Only continuing students may register for fall during the spring quarter. **August 27.**

Undergraduate students will have their advance registration cancelled if fees are not paid at the Bursar's Office by 4:00 P.M. on this date unless they have received approval for deferred payment.

### **Beginning-of-Quarter Activities for Undergraduates**

The dates listed below from September 19 through September 26 are for undergraduates. Graduate students may register through the Graduate School through the second Friday of the quarter.

#### **September 19.**

Residence halls open.

Advisement and registration for international students in the morning; for new freshmen and for freshmen re-entry students in the afternoon.

#### **September 20.**

Advisement and registration of all new (freshmen and transfers) and re-entry students continues. Upper division advisement offices will be open as well as General Studies. All new students (freshmen and transfers) are to be registered by this date.

#### **September 21.**

New Student Orientation starts.

#### **September 22.**

New Student Orientation continues.

Advisement and registration for all re-entry and continuing students not yet registered. No new students will be processed this date. This is the last date for regular registration. Late registration fee is charged after this date.

#### **September 23.**

New Student Orientation continues.

Advisement and registration continues for all re-entry and continuing students not yet registered. This is a late registration date, and a late registration fee is charged.

Night classes (5:45 P.M. or later) start.

#### **September 24.**

Day classes start.

Advisement and registration open only for program changes.

**September 25.**

Advisement and registration open only for program changes.

**September 26.**

Last day for advisement and registration for the fall quarter.

Both registrations and program changes will be processed.

Late registration fee will be charged.

Registration ends at noon.

**October 6.**

Deadline for payment of fees by students whose fees were deferred.

Graduate student registration will be cancelled if fees are not paid by 4:00 P.M.

Last day officially to withdraw from school to be eligible for a refund of fees.

**October 20.**

Last day for undergraduates to officially withdraw from a course without receiving a letter grade. Graduate students officially dropping a course after this date need not be given an evaluative letter grade. Last day to change from credit to audit or vice versa for all students.

**December 4.**

Last day for making a program change or withdrawing from school except under exceptional circumstances.

## Calendar of Events

### October

- 4, Saturday. Annual Faculty Meeting
- 18, Saturday. \* American College Test
- 18, Saturday. \* Medical College Admission Test
- 25, Saturday. \* Graduate Record Examination
- 23-25, Thursday-Saturday. Homecoming (Carbondale)
- 27, Monday. \* Test of English as a Foreign Language

### November

- 1, Saturday. \* Admission Test for Graduate Study in Business
- 1, Saturday. \* College Entrance Examination Board
- 8, Saturday. \* Law School Admission Test
- 15, Saturday. Parent's Day
- 25, Tuesday. Thanksgiving Vacation begins 10:00 p.m.

### December

- 1, Monday. Thanksgiving Vacation ends 8:00 a.m.
- 6, Saturday. \* College Entrance Examination Board
- 13, Saturday. \* American College Test
- 13, Saturday. \* Graduate Record Examination

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\* Preregistration is required. Applicants should check with the Counseling and Testing Center at least four weeks before the test.



# University Calendar

<i>FALL, 1969</i>	New Student Week	Sunday–Tuesday, September 21–23
	Quarter Begins	Wednesday, September 24 *
	Faculty Meeting (Carbondale)	Saturday, October 4
	Homecoming (Carbondale)	Thursday– Saturday, October 23–25
	Homecoming (Edwardsville)	Thursday– Saturday, October 30–November 1
	Parents' Day	Saturday, November 15
	Thanksgiving Vacation	Tuesday, 10 P.M.– Monday, 8 A.M., November 25–December 1
	Final Examinations	Monday–Saturday, December 15–20
<i>WINTER, 1970</i>	Quarter Begins	Monday, January 5 *
	Final Examinations	Monday–Saturday, March 16–21
<i>SPRING, 1970</i>	Quarter Begins	Monday, March 30 *
	Memorial Day Holiday	Friday, May 29
	Final Examinations	Monday–Saturday, June 8–13
	Commencement (Carbondale)	Friday, June 12
	Commencement (Edwardsville)	Saturday, June 13
<i>SUMMER, 1970</i>	Quarter Begins	Monday, June 22 *
	Independence Day Holiday	Friday, July 3
	Final Examinations	Monday–Friday, August 31–September 4
	Commencement (Edwardsville)	Friday, September 4
	Commencement (Carbondale)	Saturday, September 5
<i>FALL, 1970</i>	New Students	Sunday–Tuesday, September 20–22
	Quarter Begins	Tuesday, September 22 *
	Thanksgiving Vacation	Tuesday, 10 P.M.– Monday, 8 A.M., November 24–30
	Final Examinations	Saturday–Friday, December 12–18
<i>WINTER, 1971</i>	Quarter Begins	Monday, January 4 *
	Final Examinations	Saturday–Friday, March 13–19

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\* Classes begin with the evening classes after 5:30 P.M. on the Carbondale Campus and with the evening classes after 4:30 P.M. on the Edwardsville Campus.

# 1 / General Information

This bulletin contains the schedule of classes for the fall quarter, 1969, for the Carbondale Campus. It also provides information relative to advisement and registration, fees, and allied information for the Carbondale Campus.

## **Admission**

Inquiries concerning undergraduate admission to the Carbondale Campus should be directed to the Admissions Office; those on the graduate level to the Graduate School. Undergraduate admission applications should be completed at least thirty days in advance of the desired entrance date.

## **Registration and Advisement**

The Carbondale Campus uses an academic advisement system whereby each undergraduate academic unit has a chief academic adviser and a number of assistant advisers selected from the teaching faculty. Undergraduate students entering the University for the first time will receive selective dates from the admission process from which they are to select the preferred date on which they will come to the campus to be advised and to advance register. This includes both freshmen and transfer students. They are not to write for appointments nor are they to come to Carbondale expecting to register unless it is the date indicated for them to do so.

Graduate students will initiate advisement with their advisers, and will complete the registration process at the Graduate School, where all registration forms will be completed and retained. Graduate students will not be required to go through the Registration Center. The sectioning process is handled at a later time, and the student receives a fee statement by mail. Cancellation of graduate student registrations for non-payment of fees occurs at the end of the second week of the quarter. Graduate students may register during the advance registration period or during the first week of the quarter. No late fee will be assessed during this period. Graduate students who need to make program changes must follow the same procedure as undergraduate students in that these must be personally processed by the graduate students through the Registration Center.

After advisement the student may register for classes. See the registration calendar in this bulletin. Ordinarily registration offices are open from 8:15 to 11:45 A.M. and 1:00 to 4:45 P.M., Monday through Friday, and from 8:30 to 11:45 A.M. on Saturday.

During the registration process the student goes through the Registration Center where the student assigns himself to specific sections of the courses he is to take.



Mere attendance does not constitute registration in a class, nor will attendance in a class for which a student is not registered be a basis for asking that a program change be approved permitting registration in that class.

### *New Students*

Students entering the University for the first time are permitted to advance register only after they have been admitted to the University as evidenced by their receiving the Certificate of Admission.

New undergraduate students, freshmen and transfer, will be expected to advance register on the same date that they come to the campus for advisement. Dates for students to do so will be selective ones in which the students are asked to come to the campus on specific dates as determined by the University. Students should not expect to be advised and registered on the same date they are admitted nor are they to come to the campus for advisement and registration without an appointment. Appointments for advisement and registration will be mailed from and are to be returned to the Registrar's Office.

New graduate students may register during the registration periods indicated on the registration calendars. Arrangements should be cleared with the Graduate School to do so to assure that the appropriate adviser will be available.

### *Re-Entering Students*

Students who have attended the University at some former time but not during the session immediately prior to the time they plan re-entry are expected to advance register during the periods outlined in the Registration Calendar. After completing readmission procedures (Admissions Office for undergraduate students and Graduate School for graduate students) advisement appointments should be made at the advisement offices of the academic units into which the students are entering and clearance of the registrations should be completed on that same day at the Registration Center.

### *Current Students, Carbondale Campus*

Students currently registered in the University will be continued in their present curricula unless a change of college or major is made. A change of college or major area of concentration is initiated with the student's adviser. Either change should be made at the time of advisement.

Undergraduate students currently registered in the University will schedule appointments with their adviser. Registrations should be processed through the Registration Center as soon after advisement as possible.

Graduate students in a degree program should make appointments with the departmental adviser for program advisement. Unclassified graduate students preparing for a degree program should contact the departmental adviser for pre-advisement. Unclassified graduate students in other categories may report directly to the Graduate School for registration procedure. Unclassified students who are planning to take qualifying courses must report those courses to the Graduate Admissions office *before* registering each quarter.



### *Current Students, Edwardsville Campus*

Undergraduate students attending the Edwardsville Campus who plan to attend the Carbondale Campus must initiate their registration process by presenting to the Admissions Office at Carbondale either an official transcript of their University record or a letter of good standing from the registrar at the Edwardsville Campus. The reason for reporting to the Admissions Office is to permit the necessary coding changes to be made so that pertinent information about their academic programs, etc., can be up-dated to reflect the change of campus. Graduate students report first to the Graduate School.

### **Payment of Fees**

Undergraduate students receive their fee statements at the time of registration. During the advance registration period students are asked to delay paying their fees in person at the Bursar's Office until the day following registration. This is to permit necessary fee information to reach the Bursar by the time of fee payment. Students will find it easier simply to mail the fee statement along with the proper monetary amount to the Bursar's Office so as to arrive there by the deadline dates which are stated in the Registration Calendar located earlier in this Schedule. If students pay fees in person at the Bursar's Office they receive a Certificate of Registration at that time. When fees are paid by mail the Certificate will be mailed to the address given by the student on the back of his fee statement. Students will receive their printed schedule of classes within one week after the cancellation date. It is important that these forms be carried by the students at all times.

Undergraduate students registering at the start of a quarter must pay fees at the time of registration.

Graduate students receive their fee statements by mail and must clear their fees at the Bursar's Office by 4:00 P.M. on the last day of the second week of the quarter. For the 1969 fall quarter this is October 7.

### *Fees for A Regular Quarter*

The University reserves the right to change fees and to have the change go into effect whenever the proper authorities so determine. Undergraduate students pay the following regular fees:

	Not more than 5 hrs.	More than 5, less than 11	11 or more
Tuition Fee—Illinois Resident . . . .	\$22.00	\$45.00	\$67.00
Tuition Fee—Out of State Resident	(69.00)	(137.00)	(206.00)
Student Welfare and Recreation			
Building Trust Fund Fee . . . . .	5.00	10.00	15.00
Book Rental Fee . . . . .	3.00	6.00	8.00
Student Activity Fee . . . . .	3.50	7.00	10.50
University Center Fee . . . . .	5.00	5.00	5.00
Athletic Fund Fee . . . . .	3.00	6.50	10.00
<i>Total</i> —Illinois Resident . . . . .	<u>\$41.50</u>	<u>\$79.50</u>	<u>\$115.50</u>
<i>Total</i> —Out of State Resident . . . .	(88.50)	(171.50)	(254.50)

Students who register for a course for "Audit" or for a non-

credit course will be assessed fees according to the imputed hours of that course. "Imputed hours" is generally the number of hours the class meets per week.

Graduate students do not rent their textbooks and do not pay the book rental fee. They must purchase their books.

Students having special fee status, such as scholarship holders, faculty, and staff, will pay fees according to their particular status.

The activity fee is prorated according to the number of hours carried. Health Service benefits vary according to the amount paid. In certain instances graduate assistants, research assistants, graduate fellows, or students on fee code 27 may seek permission from the health service to pay the full activity fee even though they are only part time students. Written consent from the Health Service must be presented at the time of registration so that the student may be properly assessed.

### **Registering for Only Night or Saturday Classes**

Students registering for only night and/or Saturday classes may advance register, during regular office hours, the same as other students. Registration offices are also open the first night of each quarter, and the first Saturday morning of each quarter for the convenience of these students.

### **Late Registration**

A late registration fee will be charged continuing undergraduate students who do not advance register. New and re-entry undergraduate students will be charged this late fee after the first day of the quarter. Graduate students will be charged a late fee after the first week of the quarter.

### **Auditing of Courses**

Students may register for courses in an "audit" status. They receive no letter grade and no credit for such courses. An auditor's registration must be marked accordingly. They pay the same fees as though they were registering for credit. They are expected to attend regularly and are to determine from the instructor the amount of work expected of them. If auditing students do not attend regularly, the instructor may determine that the students should not have the audited courses placed on their record cards maintained in the Registrar's Office. Students registering for a course for credit may change to an audit status or vice versa only for fully justified reasons and only during the first four weeks of a quarter. Such a change will require the student's academic dean's approval.

### **Program Changes**

Students are officially registered only for those courses appearing on their schedule of classes. Any change therefrom can be made only after fees are paid and must be made through an official program change, which includes the following steps:



1. **Initiating the change.**

Students report to their advisers for approval and Program Change form completion. Graduate students must also secure approval from the Graduate School. If the change involves only that of changing sections within the same course, this may be done at the Registration Center without the necessity of securing adviser approval.

2. **Sectioning.**

Students must take the program change form to the Registration Center after approval by the adviser. If the change involves a program change fee this must be paid at the Bursar's Office and then returned to the Registration Center for completion of the process.

Program changes which involve the adding of a new course to the schedule or the changing of sections must be done during the first week of a quarter.

*Dropping a Course*

A program change must be made in order to drop a course. A student may not drop merely by stopping attendance. The last date for dropping a course by an undergraduate student without receiving a letter grade is the last day of the fourth week of a quarter. Graduate students may not necessarily receive a grade for dropping after the fourth week. (Refer to Registration Calendar.)

*Changing Fee Status*

Students making program changes which result in their moving from one fee status to another will be assessed additional tuition and fees when appropriate. If the change is to reduce the academic load resulting in a lower tuition and fee status, students may apply for the appropriate tuition and fee refund provided the reduction in program is made officially by a program change during the same period at the start of a quarter in which students withdrawing from the University are eligible for a refund. This is usually during the first ten days. For dates refer to the Registration Calendar.

**Withdrawing from School**

A student who finds it necessary to withdraw from school while the quarter is in progress must report to the Student Affairs Office to initiate official withdrawal action. No withdrawal will be permitted during the last two weeks of a quarter except under exceptional conditions. A refunding of fees is permitted only if a withdrawal is officially completed within the first two weeks of a quarter and if the application for a refund is received in the Registrar's Office within two weeks following the last regular registration period. See the Registration Calendar in this bulletin for the specific dates concerning withdrawal and refunding of fees.

A student who advance registers, including paying of fees, and then finds that he cannot attend school must also officially withdraw from school. He may do this by asking the Student Affairs Division to initiate official withdrawal action for him. This must be done by the end of the first two weeks if he expects to get a refund.



## **Cancellation of Registration**

An advance registration including the payment of tuition and fees may be considered invalid if the student is declared to be ineligible to register due to scholastic reasons. The same situation may exist due to financial or disciplinary reasons if certified to the Registrar by the Dean of Students.

## **Personal Data Changes**

At the time of registration students are asked to review a Biographic Data Sketch containing personal data. Certain items, if in error, may be corrected at that time. Other items which may require some type of verifying evidence, are changed by reporting to the offices listed below.

1. Local Address Change. Housing Office.
2. Names Changes, Marital Status Changes, Date of Birth Changes. Records section of the Registrar's Office. Verification is required.
3. Selective Service Data Changes or Information. Enrollment, Fiscal Reports, Registrar's Office.
4. Legal Residence Changes (whether an Illinois or out-of-state resident). Must be requested by completion of the *Application to be Classified an Illinois Resident* form in the Registrar's Office. Before the change is made the student must have met the regulations governing residency status as established by the Board of Trustees.

# 2 / Schedule of Classes

## Listing of Courses

Courses which students are to take to meet the General Studies requirements are listed in the front part of the Schedule of Classes. These courses are listed by the area which they satisfy and within the area by course number and section number.

Departments in which courses are being offered are listed in alphabetical order. Courses within each department are listed in order by course number and section number.

## Course Numbers and Hours

The line containing this information shows the number of the course first, followed by the short title and number of hours of credit. Course numbers are three-digit numbers. In some cases the three digits may be followed by a letter which is also part of the course number.

In a variable-hour course the student decides the number of hours for which he is going to register in consultation with his adviser.

The course numbering system is as follows:

- 000-099 Course not properly in the following categories
- 100-199 For freshmen
- 200-299 For sophomores
- 300-399 For juniors and seniors
- 400-499 For seniors and graduate students
- 500-600 For graduate students only

## Prerequisite

The prerequisite column lists requirements which must be satisfied before a student registers for the course. These prerequisites may be listed in various ways. Usually they are other courses in the same department, indicated by a course number. A prerequisite in another department is indicated by the department's code letters and the number.

## Section Number, Time, and Days

The section number is indicated in the first column. The times given indicate the beginning and ending of each class period. Students registering for courses listed as "to be arranged" may obtain times and days from instructor indicated or, if no instructor is listed, from the department chairman offering the course.

The letter *T* preceding a section number indicates that the

course has been tentatively scheduled and will be opened for registration only if staff is available.

### Building and Room Number

The following list of building abbreviations will help in the location of classrooms. Buildings are listed alphabetically according to the code used in the class schedule. Temporary buildings are indicated in the schedule by a four digit number.

If a building contains more than one classroom, then the number of the room follows the building's code name.

CODE:	BUILDING NAME	CODE:	BUILDING NAME
ABBOTT:	Abbott Hall (T.P.)	PARK:	Parkinson Building
AG:	Agriculture Building	PHY SC:	Physical Science Building
ALLYN:	Allyn Building	PIERCE:	Pierce Hall (T.P.)
ALTG:	Altgeld Hall	PULL:	Pulliam Hall (University School)
ARENA:	SIU Arena	PULL I:	Pulliam Hall (Industrial Education Wing)
BAILEY:	Bailey Hall (T.P.)	PULL P:	Pulliam Hall (Physical Education Wing)
BOAT:	Boat Dock	SHRY:	Shryock Auditorium
BROWN:	Brown Hall (T.P.)	STAD:	McAndrew Stadium
CL:	General Classroom Building	TECH A:	Technology Building A
COMM:	Communications Building	TECH B:	Technology Building B
FELTS:	Felts Hall (T.P.)	TECH D:	Technology Building D
GYM:	Gymnasium	TENNIS:	Tennis Courts
HDBALL:	Handball Courts	U CTR:	University Center
H EC:	Home Economics Building	WARREN:	Warren Hall (T.P.)
LAWSON:	Lawson Hall	WHAM:	Wham Education Building
LAKE:	Lake on the Campus	WHLR:	Wheeler Hall
LIB:	Morris Library		
LG:	Little Grassy Lake		
LS 1:	Life Science Building		
L-APS:	Physical Plant		
MAIN:	Old Main		
OBF:	Old Baptist Foundation		

### Temporary Buildings

CODE	LOCATION	FORMER	CODE	LOCATION	FORMER
0403	1009 S. Forest .....	T073	0483	1002 S. Elizabeth ....	T279
0412	907 S. Forest .....	T138	0485	1006 S. Elizabeth ....	T296
0415	807 S. Forest .....	T188	0487	1010 S. Elizabeth ....	T288
0429	1009 S. Elizabeth ....	T171	0551	CESL .....	T042
0431	1007 S. Elizabeth ....	T173	0552	CESL .....	T041
0432	1005 S. Elizabeth ....	T081	0685	506 S. Graham .....	T316
0436	908 S. Forest .....	T169	0701	801 S. Washington ..	T084
0437	904 S. Forest .....	T283	0725	207 E. Pearl .....	T165
0438	900 S. Forest .....	T177	0742	204 E. Park .....	T175
0442	903 S. Elizabeth ....	T310	0744	208 E. Park .....	T182
0448	814 S. Forest .....	T207	0821	2nd Ed. Shops .....	T025
0451	810 S. Forest .....	H077	0823	309 W. Harwood ....	T020
0452	808 S. Forest .....	T189	0831	Farm Machine Shop .	T029
0453	806 S. Forest .....	T206	0832	Journalism .....	T048
0461	811 S. Elizabeth ....	T116	0833	Journalism Annex ...	T026
0465	804 S. Elizabeth ....	T277	0834	Printing &	
0481	910 S. Elizabeth ....	T282		Photography .....	T027



0841	Microbiology		0861	Geology	.....	T106
	Research	..... H033	0862	Geology Annex 1	...	H007
0842	Bot.-Zool. Lab.		0863	Geology Annex 2	....	H008
	General Studies	..... H027	0864	Zoology Annex 2	....	H009
0843	Bot.-Zool. Lab.		0865	Zoology Annex	.....	H010
	General Studies	..... H026	0871	Geology	.....	T105
0857	Design Main Office	.. T129	0875	Geology Research	...	T107
0859	Design	..... H031	0889	901 W. Chautauqua	..	T161

### Explanation of Entries

The entry for each course is arranged as follows:

First Line: The course's identification number is followed by the short title and the number of quarter hours of credit.

Second Line: The prerequisite (if applicable).

Section-Number Lines: The first column lists section numbers for courses offered. Following each section number are the time the class begins and the time it ends. The days on which the class meets, the place where it meets, and the instructor's last name complete the entry.

### SCHEDULE OF GENERAL STUDIES COURSES

COURSE & SECTION NO.	TITLE & HOURS	DAYS	BLDG. & RM.	INSTRUCTOR
<b>General Studies Area A—Man's Physical Environment and Biological Inheritance (GSA)</b>				
101A	INTRO-PHYS SCIENCE		04.0 CR	
1	08.00	M W FS	PARK 124	NICKELL WILLIAM E
2	10.00	T TH	PARK 124	
	10.00	W	LAWSON 141	
	10.00	F	TECH A 111	
3	11.00	MT THF	PARK 124	
4	12.00	W F	PARK 124	
	01.00	TH	PARK 124	
	08.00-09.50	T	L-APS 110	
5	12.00	W F	PARK 124	
	01.00	TH	PARK 124	
	10.00-11.50	T	L-APS 110	
6	12.00	W F	PARK 124	
	01.00	TH	PARK 124	
	08.00-09.50	TH	L-APS 110	
7	12.00	W F	PARK 124	
	01.00	TH	PARK 124	
	10.00-11.50	TH	L-APS 110	
8	12.00	W F	PARK 124	
	01.00	TH	PARK 124	
	08.00-09.50	W	L-APS 110	
9	12.00	W F	PARK 124	
	01.00	TH	PARK 124	
	08.00-09.50	F	L-APS 110	
10	12.00	W F	PARK 124	
	01.00	TH	PARK 124	
	02.00-03.50	T	L-APS 110	
11	12.00	W F	PARK 124	
	01.00	TH	PARK 124	
	10.00-11.50	M	L-APS 110	

## GSA

12	02.00	MT TH	PARK	124	NICKELL WILLIAM E
	10.00-11.50	M	PARK	317	
13	02.00	MT TH	PARK	124	
	10.00-11.50	T	PARK	317	
14	02.00	MT TH	PARK	124	
	01.00-02.50	W	PARK	317	
15	02.00	MT TH	PARK	124	
	10.00-11.50	W	PARK	317	
16	02.00	MT TH	PARK	124	
	10.00-11.50	TH	PARK	317	
17	02.00	MT TH	PARK	124	
	08.00-09.50	T	PARK	317	
18	02.00	MT TH	PARK	124	
	08.00-09.50	TH	PARK	317	
19	02.00	MT TH	PARK	124	
	10.00-11.50	F	PARK	317	
20	02.00	W F	PARK	124	
	10.00	S	PARK	124	
	01.00-02.50	M	PARK	317	
21	02.00	W F	PARK	124	
	10.00	S	PARK	124	
	01.00-02.50	T	PARK	317	
22	02.00	W F	PARK	124	
	10.00	S	PARK	124	
	01.00-02.50	TH	PARK	317	
23	02.00	W F	PARK	124	
	10.00	S	PARK	124	
	08.00-09.50	W	PARK	317	
24	02.00	W F	PARK	124	
	10.00	S	PARK	124	
	08.00-09.50	F	PARK	317	
25	02.00	W F	PARK	124	
	10.00	S	PARK	124	
	04.00-05.50	T	PARK	317	
26	02.00	W F	PARK	124	
	10.00	S	PARK	124	
	04.00-05.50	W	PARK	317	
27	02.00	W F	PARK	124	
	10.00	S	PARK	124	
	04.00-05.50	TH	PARK	317	
28	04.00	MTW F	PARK	124	
29	05.00	MT THF	PARK	124	
30	06.00-07.40 PM	T TH	PARK	124	
31	07.35-09.15 PM	M W	PARK	124	
101B	INTRO-PHYS SCIENCE		04.0 CR		
1	09.00	W F	PARK	124	
	08.00	T TH	PARK	124	
2	10.00	T TH	LS I	133	
	10.00	M F	LAWSON	141	
3	03.00	M W	PARK	124	
	03.00	T TH	WHAM	105	
110A	EARTH ENVIRONMENT		04.0 CR		
1	09.00	M W F	LAWSON	171	BERTONI
	10.00-11.50	M	PARK	213	
2	09.00	M W F	LAWSON	171	BERTONI
	12.00-01.50	M	PARK	213	
3	09.00	M W F	LAWSON	171	BERTONI
	08.00-09.50	T	PARK	213	
4	09.00	M W F	LAWSON	171	BERTONI
	10.00-11.50	T	PARK	213	
5	09.00	M W F	LAWSON	171	BERTONI
	12.00-01.50	T	PARK	213	
6	09.00	M W F	LAWSON	171	BERTONI
	10.00-11.50	W	PARK	213	
7	09.00	M W F	LAWSON	171	BERTONI
	08.00-09.50	TH	PARK	213	
8	09.00	M W F	LAWSON	171	BERTONI
	10.00-11.50	TH	PARK	213	
9	09.00	M W F	LAWSON	101	BERTONI
	10.00-11.50	F	PARK	213	
10	10.00	M W F	LAWSON	171	BERTONI
	08.00-09.50	M	PARK	213	

11	10.00	M W F	LAWSON	171	BERTONI
	08.00-09.50	W	PARK	213	
12	10.00	M W F	LAWSON	171	BERTONI
	08.00-09.50	F	PARK	213	
13	10.00	M W F	LAWSON	171	BERTONI
	02.00-03.50	M	PARK	213	
14	10.00	M W F	LAWSON	171	BERTONI
	02.00-03.50	T	PARK	213	
15	10.00	M W F	LAWSON	171	BERTONI
	12.00-01.50	W	PARK	213	
16	10.00	M W F	LAWSON	171	BERTONI
	12.00-01.50	TH	PARK	213	
17	10.00	M W F	LAWSON	171	BERTONI
	02.00-03.50	TH	PARK	213	
18	10.00	M W F	LAWSON	171	BERTONI
	02.00-03.50	F	PARK	213	
19	03.00	T THF	LAWSON	171	JONES
	12.00-01.50	F	PARK	213	
20	03.00	T THF	LAWSON	171	JONES
	04.00-05.50	M	PARK	213	
21	03.00	T THF	LAWSON	171	JONES
	04.00-05.50	T	PARK	213	
22	03.00	T THF	LAWSON	171	JONES
	02.00-03.50	W	PARK	213	
23	03.00	T THF	LAWSON	171	JONES
	04.00-05.50	W	PARK	213	
24	03.00	T THF	LAWSON	171	JONES
	04.00-05.50	TH	PARK	213	
25	03.00	T THF	LAWSON	171	JONES
	04.00-05.50	F	PARK	213	
26	03.00	T THF	LAWSON	171	JONES
	06.00-07.50 PM	T	PARK	213	
27	03.00	T THF	LAWSON	171	JONES
	06.00-07.50 PM	TH	PARK	213	
28	06.00-07.25 PM	T TH	LAWSON	171	
	06.00-07.50 PM	M	PARK	213	
29	06.00-07.25 PM	T TH	LAWSON	171	
	08.00-09.50 PM	M	PARK	213	
30	06.00-07.25 PM	T TH	LAWSON	171	
	08.00-09.50 PM	T	PARK	213	
31	06.00-07.25 PM	T TH	LAWSON	171	
	06.00-07.50 PM	W	PARK	213	
32	06.00-07.25 PM	T TH	LAWSON	171	
	08.00-09.50 PM	W	PARK	213	
33	06.00-07.25 PM	T TH	LAWSON	171	
	08.00-09.50 PM	TH	PARK	213	
34	06.00-07.25 PM	T TH	LAWSON	171	
	08.00-09.50	S	PARK	213	
35	06.00-07.25 PM	T TH	LAWSON	171	
	10.00-11.50	S	PARK	213	
110B	EARTH ENVIRONMENT			04.0 CR	
1	12.00	T THF	LAWSON	161	HARRIS
	LAB TO BE ARRANGED	IN PARK	206		
2	01.00	T THF	LAWSON	161	HARRIS
	LAB TO BE ARRANGED	IN PARK	206		
201A	INTRODUCT BIOLOGY			04.0 CR	
	PREREQ	FIRST LEVEL GSA	OR CHEM 110 OR 111		
1	09.00	M W F	LS I	133	
	10.00-11.50	M	0842	101	
2	09.00	M W F	LS I	133	
	12.00-01.50	M	0842	101	
3	09.00	M W F	LS I	133	
	04.00-05.50	M	0842	101	
4	09.00	M W F	LS I	133	
	08.00-09.50	T	0842	101	
5	09.00	M W F	LS I	133	
	08.00-09.50	T	0842	108	
6	09.00	M W F	LS I	133	
	06.00-07.50 PM	T	0842	101	
7	09.00	M W F	LS I	133	
	08.00-09.50	TH	0842	101	
8	09.00	M W F	LS I	133	
	12.00-01.50	TH	0842	101	



## GSA

9	09.00	M W F	LS I	133
	06.00-07.50 PM	TH	0842	101
10	09.00	M W F	LS I	133
	10.00-11.50	F	0842	101
11	10.00	M W F	LS I	133
	08.00-09.50	M	0842	101
12	10.00	M W F	LS I	133
	06.00-07.50 PM	M	0842	101
13	10.00	M W F	LS I	133
	10.00-11.50	T	0842	101
14	10.00	M W F	LS I	133
	12.00-01.50	T	0842	101
15	10.00	M W F	LS I	133
	10.00-11.50	TH	0842	101
16	10.00	M W F	LS I	133
	02.00-03.50	TH	0842	101
17	10.00	M W F	LS I	133
	04.00-05.50	TH	0842	101
18	10.00	M W F	LS I	133
	08.00-09.50	F	0842	101
19	10.00	M W F	LS I	133
	12.00-01.50	F	0842	101
20	10.00	M W F	LS I	133
	02.00-03.50	F	0842	101
21	01.00	M W F	LS I	133
	08.00-09.50	M	0842	108
22	01.00	M W F	LS I	133
	02.00-03.50	M	0842	101
23	01.00	M W F	LS I	133
	02.00-03.50	M	0842	108
24	01.00	M W F	LS I	133
	12.00-01.50	T	0842	108
25	01.00	M W F	LS I	133
	02.00-03.50	T	0842	101
26	01.00	M W F	LS I	133
	04.00-05.50	T	0842	101
27	01.00	M W F	LS I	133
	04.00-05.50	T	0842	108
28	01.00	M W F	LS I	133
	06.00-07.50 PM	T	0842	108
29	01.00	M W F	LS I	133
	08.00-09.50	TH	0842	108
30	01.00	M W F	LS I	133
	12.00-01.50	TH	0842	108
31	03.00	M W F	LS I	133
	10.00-11.50	M	0842	108
32	03.00	M W F	LS I	133
	12.00-01.50	M	0842	108
33	03.00	M W F	LS I	133
	06.00-07.50 PM	M	0842	108
34	03.00	M W F	LS I	133
	10.00-11.50	T	0842	108
35	03.00	M W F	LS I	133
	02.00-03.50	T	0842	108
36	03.00	M W F	LS I	133
	10.00-11.50	TH	0842	108
37	03.00	M W F	LS I	133
	02.00-03.50	TH	0842	108
38	03.00	M W F	LS I	133
	06.00-07.50 PM	TH	0842	108
39	03.00	M W F	LS I	133
	08.00-09.50	F	0842	108
40	03.00	M W F	LS I	133
	10.00-11.50	F	0842	108

GSA 201A -- There will be an invitational "Honors" laboratory section formed the second week. An interested A or B student should try to keep 4:00-5:50 Mondays clear.

**201B INTRODUCT BIOLOGY**  
**PREREQ GSA 201A**

04.0 CR

1	09.00	T TH	LS I	133
	12.00-01.50	M F	0843	102
2	09.00	T TH	LS I	133
	02.00-03.50	M F	0843	102

3	09.00	T TH	LS I	133
	10.00-11.50	T TH	0843	102
4	09.00	T TH	LS I	133
	12.00-01.50	T TH	0843	102
5	09.00	T TH	LS I	133
	12.00-01.50	T TH	0843	104
6	09.00	T TH	LS I	133
	04.00-05.50	T TH	0843	102
7	09.00	T TH	LS I	133
	06.00-07.50 PM	T TH	0843	102
8	09.00	T TH	LS I	133
	08.00-09.50	W F	0843	102
9	09.00	T TH	LS I	133
	08.00-09.50	W F	0843	104
10	09.00	T TH	LS I	133
	10.00-11.50	W F	0843	102
11	01.00	T TH	LS I	133
	12.00-01.50	M F	0843	104
12	01.00	T TH	LS I	133
	02.00-03.50	T TH	LS I	132
13	01.00	T TH	LS I	133
	08.00-09.50	T TH	0843	102
14	01.00	T TH	LS I	133
	08.00-09.50	T TH	0843	104
15	01.00	T TH	LS I	133
	10.00-11.50	T TH	0843	104
16	01.00	T TH	LS I	133
	02.00-03.50	T TH	0843	102
17	01.00	T TH	LS I	133
	02.00-03.50	T TH	0843	104
18	01.00	T TH	LS I	133
	04.00-05.50	T TH	0843	104
19	01.00	T TH	LS I	133
	06.00-07.50 PM	T TH	0843	104
20	01.00	T TH	LS I	133
	10.00-11.50	W F	0843	104
21	03.00	T TH	LS I	133
	12.00-01.50	M F	LS I	132
22	03.00	T TH	LS I	133
	02.00-03.50	M F	LS I	132
23	03.00	T TH	LS I	133
	02.00-03.50	M F	0843	104
24	03.00	T TH	LS I	133
	08.00-09.50	T TH	LS I	132
25	03.00	T TH	LS I	133
	10.00-11.50	T TH	LS I	132
26	03.00	T TH	LS I	133
	12.00-01.50	T TH	LS I	132
27	03.00	T TH	LS I	133
	04.00-05.50	T TH	LS I	132
28	03.00	T TH	LS I	133
	06.00-07.50 PM	T TH	LS I	132
29	03.00	T TH	LS I	133
	08.00-09.50	W F	LS I	132
30	03.00	T TH	LS I	133
	10.00-11.50	W F	LS I	132

GSA 201B -- There will be an invitational "Honors" laboratory section formed the second week. An interested A or B student should try to keep 4:00-5:50 Mondays and Wednesdays clear.

## 210A INTRO ENVIRON BIOL

34.0 CR

PREREQ GSA 110 CR CHEM 115

1	08.00	M W F	LAWSON	171	PETERSEN
	09.00	M	LS I	308	
2	08.00	M W F	LAWSON	171	PETERSEN
	10.00	M	LS I	308	
3	08.00	M W F	LAWSON	171	PETERSEN
	11.00	M	LS I	308	
4	08.00	M W F	LAWSON	171	PETERSEN
	12.00	M	LS I	308	
5	08.00	M W F	LAWSON	171	PETERSEN
	01.00	M	LS I	308	
6	08.00	M W F	LAWSON	171	PETERSEN
	02.00	M	LS I	308	

## GSA

7	08.00		M W F	LAWSON	171	PETERSEN
	03.00		M	LS I	308	
8	08.00		M W F	LAWSON	171	PETERSEN
	04.00		M	LS I	308	
9	08.00		M W F	LAWSON	171	PETERSEN
	05.00		M	LS I	308	
10	08.00		M W F	LAWSON	171	PETERSEN
	07.35-08.25 PM		M	LS I	308	
11	08.00		M W F	LAWSON	171	PETERSEN
	08.00		T	LS I	308	
12	08.00		M W F	LAWSON	171	PETERSEN
	09.00		T	LS I	308	
13	01.00		M W F	LAWSON	171	
	03.00		W	LS I	308	
14	01.00		M W F	LAWSON	171	
	07.35-08.25 PM		W	LS I	308	
15	01.00		M W F	LAWSON	171	
	09.00		TH	LS I	308	
16	01.00		M W F	LAWSON	171	
	12.00		TH	LS I	308	
17	01.00		M W F	LAWSON	171	
	02.00		TH	LS I	308	
18	01.00		M W F	LAWSON	171	
	04.00		TH	LS I	308	
19	01.00		M W F	LAWSON	171	
	05.45-06.35		TH	LS I	308	
20	01.00		M W F	LAWSON	171	
	07.35-08.25 PM		TH	LS I	308	
21	01.00		M W F	LAWSON	171	
	09.00		F	LS I	308	
22	01.00		M W F	LAWSON	171	
	10.00		F	LS I	308	
23	01.00		M W F	LAWSON	171	
	11.00		F	LS I	308	
24	01.00		M W F	LAWSON	171	
	12.00		F	LS I	308	
25	03.00		M W F	LAWSON	151	
	10.00		T	LS I	308	
26	03.00		M W F	LAWSON	151	
	11.00		T	LS I	308	
27	03.00		M W F	LAWSON	151	
	12.00		T	LS I	308	
28	03.00		M W F	LAWSON	151	
	01.00		T	LS I	308	
29	03.00		M W F	LAWSON	151	
	02.00		T	LS I	308	
30	03.00		M W F	LAWSON	151	
	03.00		T	LS I	308	
31	03.00		M W F	LAWSON	151	
	04.00		T	LS I	308	
32	03.00		M W F	LAWSON	151	
	06.00	PM	T	LS I	308	
33	03.00		M W F	LAWSON	151	
	08.00		W	LS I	308	
34	03.00		M W F	LAWSON	151	
	09.00		W	LS I	308	
35	03.00		M W F	LAWSON	151	
	11.00		W	LS I	308	
36	03.00		M W F	LAWSON	151	
	01.00		W	LS I	308	
210B	INTRO ENVIRON BIOL			04.0	CR	
	PREREQ	GSA 110 CR	CHEM 115			
1	09.00		T TH S	LAWSON	161	
	10.00		W	LS I	308	
	09.00		T TH S	LAWSON	161	
3	09.00		T TH S	LAWSON	161	
	02.00		W	LS I	308	
4	09.00		T TH S	LAWSON	161	
	04.00		W	LS I	308	
5	09.00		T TH S	LAWSON	161	
	05.00		W	LS I	308	
6	09.00		T TH S	LAWSON	161	
	08.00		TH	LS I	308	



7	09.00	T TH S	LAWSON	161	
	10.00	TH	LS I	308	
8	09.00	T TH S	LAWSON	161	
	11.00	TH	LS I	308	
9	09.00	T TH S	LAWSON	161	
	01.00	TH	LS I	308	
10	09.00	T TH S	LAWSON	161	
	03.00	TH	LS I	308	
11	09.00	T TH S	LAWSON	161	
	08.00	F	LS I	308	
12	09.00	T TH S	LAWSON	161	
	01.00	F	LS I	308	
13	09.00	T TH S	LAWSON	161	
	12.00	W	LS I	308	
14	06.00-07.25 PM	T TH	LAWSON	161	
	02.00	F	LS I	308	
15	06.00-07.25 PM	T TH	LAWSON	161	
	03.00	F	LS I	308	
16	06.00-07.25 PM	T TH	LAWSON	161	
	04.00	F	LS I	308	
17	06.00-07.25 PM	T TH	LAWSON	161	
	08.00	S	LS I	308	
18	06.00-07.25 PM	T TH	LAWSON	161	
	09.00	S	LS I	308	
19	06.00-07.25 PM	T TH	LAWSON	161	
	10.00	S	LS I	308	
20	06.00-07.25 PM	T TH	LAWSON	161	
	11.00	S	LS I	308	
21	06.00-07.25 PM	T TH	LAWSON	161	
	08.00	M	LS I	308	
22	06.00-07.25 PM	T TH	LAWSON	161	
	06.00 PM	M	LS I	308	
23	06.00-07.25 PM	T TH	LAWSON	161	
	05.00	T	LS I	308	
24	06.00-07.25 PM	T TH	LAWSON	161	
	06.00 PM	W	LS I	308	
25	07.35-08.25 PM	T	LAWSON	161	
	06.00 PM	W	LS I	308	
301	PRIN OF PHYSIOLOGY		04.0 CR		
1	08.00	M W F	LS I	133	GASS
	11.00-12.50	T	LS I	117	
2	08.00	M W F	LS I	133	GASS
	02.00-03.50	M	LS I	117	
3	08.00	M W F	LS I	133	GASS
	05.45-07.25	T	LS I	117	
4	08.00	M W F	LS I	133	GASS
	02.00-03.50	W	LS I	117	
5	08.00	M W F	LS I	133	GASS
	05.45-07.25	TH	LS I	117	
6	08.00	M W F	LS I	133	GASS
	01.00-02.50	F	LS I	117	
7	08.00	M W F	LS I	133	GASS
	08.00-09.50	T	LS I	117	
8	08.00	M W F	LS I	133	GASS
	08.00-09.50	TH	LS I	117	
9	01.00	M W F	TECH A	111	STRACK
	09.00-10.50	M	LS I	117	
10	01.00	M W F	TECH A	111	STRACK
	11.00-12.50	TH	LS I	117	
11	01.00	M W F	TECH A	111	STRACK
	09.00-10.50	F	LS I	117	
12	01.00	M W F	TECH A	111	STRACK
	09.00-10.50	W	LS I	117	
13	01.00	M W F	TECH A	111	STRACK
	02.00-03.50	T	LS I	117	
14	01.00	M W F	TECH A	111	STRACK
	02.00-03.50	TH	LS I	117	
15	01.00	M W F	TECH A	111	STRACK
	05.45-07.25	W	LS I	117	
16	01.00	M W F	TECH A	111	STRACK
	08.00-09.50	S	LS I	117	
302	PSYC-PHSL FOUN BEH		03.0 CR		
	PREREQ GSA 201B AND C				

## GSA

	1	11.00	T TH	AG	216	STRACK
		01.00-02.50	TH	LS I	120	
	2	11.00	T TH	AG	216	
		08.00-09.50	S	LS I	113	
312		CONS OF NATURAL RES			03.0	CR
	1	10.00	T TH S	LAWSON	151	KRULL
	2	02.00	M W F	LAWSON	141	
313		EVOLUTION			03.0	CR
		PREREQ ONE YEAR	CF BICLOGY			
	1	08.00	W F	LAWSON	141	STAINS
		08.00	M	WHAM	105	
315		HISTORY OF BIOLOGY			03.0	CR
	1	01.00	M W F	LAWSON	151	GALBREATH
321		INTRO PALEONTOLOGY			03.0	CR
	1	11.00	T TH	AG	166	UTGAARD
		08.00-09.50	M	PARK	107	
	2	11.00	T TH	AG	166	UTGAARD
		10.00-11.50	M	PARK	107	
	3	11.00	T TH	AG	166	UTGAARD
		01.00-02.50	M	PARK	107	
	4	11.00	T TH	AG	166	UTGAARD
		03.00-04.50	M	PARK	107	
	5	11.00	T TH	AG	166	UTGAARD
		06.00-07.25 PM	M	PARK	107	
322		INTR TO ROCKS + MIN			03.0	CR
	1	09.00	M W	PARK	204	BELL
		08.00-09.50	TH	PARK	112	
	2	09.00	M W	PARK	204	BELL
		10.00-11.50	TH	PARK	112	
	3	09.00	M W	PARK	204	BELL
		06.00-07.50 PM	TH	PARK	112	
	4	03.00	T TH	PARK	204	BELL
		12.00-01.50	TH	PARK	112	
	5	03.00	T TH	PARK	204	BELL
		04.00-05.50	TH	PARK	112	
	6	03.00	T TH	PARK	204	BELL
		06.00-07.50 PM	TH	PARK	112	
330		WEATHER			03.0	CR
	1	03.00	M W	LAWSON	171	JONES
		08.00	F	FELTS	130	
	2	03.00	M W	LAWSON	171	JONES
		09.00	F	AG	144	
	3	03.00	M W	LAWSON	171	JONES
		10.00	F	AG	154	
	4	03.00	M W	LAWSON	171	JONES
		01.00	F	AG	144	
	5	03.00	M W	LAWSON	171	JONES
		02.00	F	AG	144	
	6	03.00	M W	LAWSON	171	JONES
		03.00	F	AG	144	
	7	03.00	M W	LAWSON	171	JONES
		08.00	F	WHAM	202	
	8	03.00	M W	LAWSON	171	JONES
		09.00	F	AG	150	
	9	03.00	M W	LAWSON	171	JONES
		12.00	F	TECH A	122	
	10	03.00	M W	LAWSON	171	JONES
		01.00	F	WHAM	203	
	11	03.00	M W	LAWSON	171	JONES
		02.00	F	AG	150	
	12	03.00	M W	LAWSON	171	JONES
		03.00	F	AG	150	
331		CLIMATE			03.0	CR
	1	09.00	T TH	LAWSON	151	SHARPE
		08.00	F	ABBOTT	129	
	2	09.00	T TH	LAWSON	151	SHARPE
		08.00	F	ARENA	125	
	3	09.00	T TH	LAWSON	151	SHARPE
		09.00	F	AG	120	
	4	09.00	T TH	LAWSON	151	SHARPE
		09.00	F	WOODY	1006	
	5	09.00	T TH	LAWSON	151	SHARPE
		02.00	F	ARENA	119	

6	09.00	T TH	LAWSON	151	SHARPE
	02.00	F	WHAM	206	
7	09.00	T TH	LAWSON	151	SHARPE
	12.00	F	COMM	122	
8	09.00	T TH	LAWSON	151	SHARPE
	12.00	F	TECH D	131	
9	09.00	T TH	LAWSON	151	SHARPE
	01.00	F	COMM	214	
10	09.00	T TH	LAWSON	151	SHARPE
	01.00	F	WHAM	317	
11	09.00	T TH	LAWSON	151	SHARPE
	03.00	F	COMM	214	
12	09.00	T TH	LAWSON	151	SHARPE
	03.00	F	WHAM	305	
340	ECOLOGY			03.0	CR
1	01.00	TW F	LS I	323	ANDERSON
2	04.00	T TH	LS I	323	ANDERSON
345	ECONOMIC BOTANY			03.0	CR
1	10.00	M W F	LAWSON	101	PORTZ HERBERT L
2	04.00	M W F	LAWSON	101	PORTZ HERBERT L
358A	ANAL OF PHYS SYSTEM			03.0	CR
	PREREQ 1ST LEVEL	GSA AND	MATH 111A AND B		
1	02.00	T TH	TECH A	111	
	06.00-07.50 PM	M	TECH D	122	
2	02.00	T TH	TECH A	111	
	06.00-07.50 PM	TH	TECH D	122	
3	02.00	T TH	TECH A	111	
	09.00-10.50	S	TECH D	122	
4	02.00	T TH	TECH A	111	
	10.00-11.50	TH	TECH D	122	
358B	ANAL OF PHYS SYSTEM			03.0	CR
	PREREQ GSA 358A				
1	03.00	T TH	TECH A	111	
	06.00-07.50 PM	T	TECH D	122	
2	03.00	T TH	TECH A	111	
	10.00-11.50	T	TECH D	122	
3	03.00	T TH	TECH A	111	
	08.00-09.50	T	TECH D	122	
4	03.00	T TH	TECH A	111	
	08.00-09.50	TH	TECH D	122	
361	ACOUSTICS OF MUSIC			03.0	CR
1	01.00	M W F	H EC	140B	GORDON
2	04.00	M W F	H EC	140B	GORDON
363A	PHIL OF SCIENCE			03.0	CR
	PREREQ 1ST LEV	SEQ OR ITS EQUIV	IN AREA A		
1	11.00	M W F	PULL	38	CLARKE

### General Studies Area B—Man's Social Inheritance and Social Responsibilities (GSB)

101B	SURV-WEST TRADITION			04.0	CR
1	08.00	M W F	LAWSON	151	MCFARLIN
	09.00	T	PARK	204	
2	08.00	M W F	LAWSON	151	MCFARLIN
	08.00	T	MAIN	209	
3	08.00	M W F	LAWSON	151	MCFARLIN
	11.00	W	AG	148	
4	08.00	M W F	LAWSON	151	MCFARLIN
	12.00	TH	MAIN	308	
5	08.00	M W F	LAWSON	151	MCFARLIN
	01.00	F	H EC	120	
6	08.00	M W F	LAWSON	151	MCFARLIN
	02.00	TH	H C	202	
7	08.00	M W F	LAWSON	151	MCFARLIN
	03.00	TH	MAIN	305A	
8	08.00	M W F	LAWSON	151	MCFARLIN
	04.00	W	H EC	104	
9	08.00	M W F	LAWSON	151	MCFARLIN
	08.00	T	H EC	104	
10	08.00	M W F	LAWSON	151	MCFARLIN
	10.00	W	MAIN	304A	
11	08.00	M W F	LAWSON	151	MCFARLIN
	11.00	TH	AG	154	



GSB

12	08.00		M W F	LAWSON	151	MCFARLIN
	06.00	PM	W	MAIN	102A	
13	09.00		T THF	WHAM	105	BERBERICH
	10.00		W	WHAM	112	
14	09.00		T THF	WHAM	105	BERBERICH
	10.00		W	MAIN	308	
15	09.00		T THF	WHAM	105	BERBERICH
	11.00		T	H EC	122	
16	09.00		T THF	WHAM	105	BERBERICH
	12.00		W	MAIN	307	
17	09.00		T THF	WHAM	105	BERBERICH
	01.00		TH	ABBOTT	129	
18	09.00		T THF	WHAM	105	BERBERICH
	02.00		F	PULL	41	
19	09.00		T THF	WHAM	105	BERBERICH
	03.00		TH	H EC	104	
20	09.00		T THF	WHAM	105	BERBERICH
	04.00		T	MAIN	308	
21	09.00		T THF	WHAM	105	BERBERICH
	11.00		M	MAIN	102	
22	09.00		T THF	WHAM	105	BERBERICH
	11.00		W	MAIN	203	
23	09.00		T THF	WHAM	105	BERBERICH
	10.00		W	MAIN	302	
24	09.00		T THF	WHAM	105	BERBERICH
	07.35-08.25	PM	T	MAIN	206	
25	11.00		M W F	TECH A	111	
	07.00	PM	M	MAIN	207	
26	11.00		M W F	TECH A	111	
	03.00		W	MAIN	207	
27	11.00		M W F	TECH A	111	
	03.00		T	H EC	120	
28	11.00		M W F	TECH A	111	
	06.00-07.00	PM	M	MAIN	102A	
29	11.00		M W F	TECH A	111	
	04.00		M	H EC	112	
30	11.00		M W F	TECH A	111	
	07.00	PM	TH	MAIN	102A	
31	11.00		M W F	TECH A	111	
	06.00	PM	M	MAIN	305A	
32	11.00		M W F	TECH A	111	
	02.00		TH	ARENA	125	
33	12.00		M W F	LAWSON	151	HALL
	08.00		M	MAIN	306	
34	12.00		M W F	LAWSON	151	HALL
	09.00		T	MAIN	304A	
35	12.00		M W F	LAWSON	151	HALL
	09.00		W	MAIN	310	
36	12.00		M W F	LAWSON	151	HALL
	11.00		TH	MAIN	207	
37	12.00		M W F	LAWSON	151	HALL
	01.00		TH	TECH A	122	
38	12.00		M W F	LAWSON	151	HALL
	02.00		F	MAIN	308	
39	12.00		M W F	LAWSON	151	HALL
	03.00		W	MAIN	306	
40	12.00		M W F	LAWSON	151	HALL
	04.00		T	MAIN	305A	
41	12.00		M W F	LAWSON	151	HALL
	06.00	PM	M	H EC	118	
42	12.00		M W F	LAWSON	151	HALL
	07.35-08.25	PM	T	MAIN	305A	
43	12.00		M W F	LAWSON	151	HALL
	09.00		T	MAIN	303	
44	12.00		M W F	LAWSON	151	HALL
	03.00		F	MAIN	306	
45	01.00		M W F	LAWSON	141	MCFARLIN
	08.00		F	MAIN	308	
46	01.00		M W F	LAWSON	141	MCFARLIN
	01.00		TH	MAIN	304A	
47	01.00		M W F	LAWSON	141	MCFARLIN
	10.00		T	H EC	203	

48	01.00		M W F	LAWSON	141	MCFARLIN
	11.00		W	WHAM	312	
49	01.00		M W F	LAWSON	141	MCFARLIN
	01.00		T	PARK	111	
50	01.00		M W F	LAWSON	141	MCFARLIN
	03.00		M	AG	148	
51	01.00		M W F	LAWSON	141	MCFARLIN
	01.00		T	MAIN	304 A	
52	01.00		M W F	LAWSON	141	MCFARLIN
	11.00		TH	PARK	111	
53	01.00		M W F	LAWSON	141	MCFARLIN
	12.00		TH	MAIN	102	
54	01.00		M W F	LAWSON	141	MCFARLIN
	02.00		TH	MAIN	307	
55	01.00		M W F	LAWSON	141	MCFARLIN
	09.00		W	MAIN	308	
56	01.00		M W F	LAWSON	141	MCFARLIN
	11.00		T	WHLR	107	
57	04.00		M W F	WHAM	105	
	12.00		F	MAIN	309	
58	04.00		M W F	WHAM	105	
	02.00		T	MAIN	301	
59	04.00		M W F	WHAM	105	
	06.00	PM	WTH	MAIN	307	
60	04.00		M W F	WHAM	105	
	04.00		T	H EC	104	
61	04.00		M W F	WHAM	105	
	10.00		T	PARK	301	
62	04.00		M W F	WHAM	105	
	11.00		T	WHLR	207	
63	04.00		M W F	WHAM	105	
	12.00		W	MAIN	207	
64	04.00		M W F	WHAM	105	
	01.00		TH	WARREN	129	
65	04.00		M W F	WHAM	105	
	04.00		T	MAIN	203	
66	04.00		M W F	WHAM	105	
	04.00		T	MAIN	210	
67	04.00		M W F	WHAM	105	
	03.00		T	H EC	201	
68	04.00		M W F	WHAM	105	
	06.00	PM	T	MAIN	203	
69	06.00-07.25	PM	T TH	H EC	140 B	BREHM
	07.35-08.25	PM	M	MAIN	102 A	
70	06.00-07.25	PM	T TH	H EC	140 B	BREHM
	07.00	PM	W	MAIN	305 A	
71	06.00-07.25	PM	T TH	H EC	140 B	BREHM
	06.00	PM	W	MAIN	207	
SECT 71-PRESIDENTS SCHOLARS ONLY						
72	06.00-07.25	PM	T TH	H EC	140 B	BREHM
	06.00-07.00	PM	M	MAIN	203	
73	06.00-07.25	PM	T TH	H EC	140 B	BREHM
	04.00		T	MAIN	304 A	
74	06.00-07.25	PM	T TH	H EC	140 B	BREHM
	02.00		T	MAIN	310	
75	06.00-07.25	PM	MT TH	LAWSON	151	BREHM
	04.00		TH	PULL	43	
76	06.00-07.25	PM	T TH	H EC	140 B	BREHM
	04.00		TH	MAIN	203	
101C	SURV-WEST TRADITION			04.0	CR	
1	11.00		T THF	LAWSON	161	ZUCKER
	08.00		T	MAIN	307	
2	11.00		T THF	LAWSON	161	ZUCKER
	02.00		T	PARK	301	
3	11.00		T THF	LAWSON	161	ZUCKER
	03.00		M	MAIN	304 A	
4	11.00		T THF	LAWSON	161	ZUCKER
	01.00		W	MAIN	303	
5	11.00		T THF	LAWSON	161	ZUCKER
	12.00		M	MAIN	207	
6	11.00		T THF	LAWSON	161	ZUCKER
	02.00		W	MAIN	302	

7	11.00	T THF	LAWSON	161	ZUCKER
	03.00	T	MAIN	210	
8	11.00	T THF	LAWSON	161	ZUCKER
	04.00	TH	MAIN	305	
9	11.00	T THF	LAWSON	161	ZUCKER
	03.00	W	MAIN	301	
10	11.00	T THF	LAWSON	161	ZUCKER
	08.00	W	MAIN	304A	
11	11.00	T THF	LAWSON	161	ZUCKER
	07.35-08.25 PM	M	MAIN	206	
12	11.00	T THF	LAWSON	161	ZUCKER
	06.00 PM	T	MAIN	305A	
13	02.00	M W F	LAWSON	151	DETWILER
	08.00	TH	MAIN	306	
14	02.00	M W F	LAWSON	151	DETWILER
	11.00	F	H EC	203	
15	02.00	M W F	LAWSON	151	DETWILER
	12.00	T	MAIN	302	
16	02.00	M W F	LAWSON	151	DETWILER
	02.00	T	MAIN	302	
17	02.00	M W F	LAWSON	151	DETWILER
	12.00	W	MAIN	306A	
18	02.00	M W F	LAWSON	151	DETWILER
	01.00	T	MAIN	305A	
19	02.00	M W F	LAWSON	151	DETWILER
	02.00	TH	ABBOTT	129	
SECT 19-PRESIDENTS SCHOLARS ONLY					
20	02.00	M W F	LAWSON	151	DETWILER
	12.00	F	MAIN	304A	
21	02.00	M W F	LAWSON	151	DETWILER
	02.00	T	MAIN	307	
22	02.00	M W F	LAWSON	151	DETWILER
	12.00	M	MAIN	306A	
23	02.00	M W F	LAWSON	151	DETWILER
	07.35-08.25 PM	TH	MAIN	305A	
24	02.00	M W F	LAWSON	151	DETWILER
	04.00	T	H EC	102	
102A	MAN AND HIS WORLD		04.0	CR	
1	09.00	T THF	LAWSON	141	
	08.00	M	H EC	306	
2	09.00	T THF	LAWSON	141	
	09.00	M	H EC	306	
3	09.00	T THF	LAWSON	141	
	10.00	M	H EC	306	
4	09.00	T THF	LAWSON	141	
	11.00	M	H EC	306	
5	09.00	T THF	LAWSON	141	
	12.00	M	H EC	306	
6	09.00	T THF	LAWSON	141	
	01.00	M	H EC	306	
7	09.00	T THF	LAWSON	141	
	02.00	M	H EC	306	
8	09.00	T THF	LAWSON	141	
	03.00	M	H EC	306	
9	09.00	T THF	LAWSON	141	
	04.00	M	H EC	306	
10	09.00	T THF	LAWSON	141	
	08.00	W	H EC	106	
11	09.00	T THF	LAWSON	141	
	02.00	F	H EC	306	
12	09.00	T THF	LAWSON	141	
	03.00	F	H EC	306	
13	09.00	T THF	LAWSON	141	
	04.00	F	H EC	306	
14	01.00	M W F	H EC	122A	BELMCNT
HONORS SECT-ENROLLMENT BY PERMISSION ONLY					
15	01.00	M W F	WHAM	105	RACKERBY
	08.00	T	H EC	306	
16	01.00	M W F	WHAM	105	RACKERBY
	09.00	T	H EC	306	
17	01.00	M W F	WHAM	105	RACKERBY
	10.00	T	H EC	306	



18	01.00	M W F	WHAM	105	RACKERBY
	11.00	T	H EC	306	
19	01.00	M W F	WHAM	105	RACKERBY
	12.00	T	H EC	306	
20	01.00	M W F	WHAM	105	RACKERBY
	01.00	T	H EC	306	
21	01.00	M W F	WHAM	105	RACKERBY
	02.00	T	H EC	306	
22	01.00	M W F	WHAM	105	RACKERBY
	03.00	T	H EC	306	
23	01.00	M W F	WHAM	105	RACKERBY
	09.00	TH	PARK	204	
24	01.00	M W F	WHAM	105	RACKERBY
	10.00	TH	H EC	203	
25	01.00	M W F	WHAM	105	RACKERBY
	11.00	TH	H EC	201	
26	01.00	M W F	WHAM	105	RACKERBY
	04.00	T	H EC	306	
27	01.00	M W F	WHAM	105	RACKERBY
	08.00	TH	H EC	106	
28	02.00	M W F	H EC	122 A	LANGE
HONORS SECT-ENROLLMENT BY PERMISSION ONLY					
29	03.00	T THF	LAWSON	161	MARING E
	08.00	W	H EC	306	
30	03.00	T THF	LAWSON	161	MARING E.
	09.00	W	H EC	306	
31	03.00	T THF	LAWSON	161	MARING E.
	10.00	W	H EC	306	
32	03.00	T THF	LAWSON	161	MARING E.
	11.00	W	H EC	306	
33	03.00	T THF	LAWSON	161	MARING E.
	12.00	W	H EC	306	
34	03.00	T THF	LAWSON	161	MARING E.
	01.00	W	H EC	306	
35	03.00	T THF	LAWSON	161	MARING E.
	02.00	W	H EC	306	
36	03.00	T THF	LAWSON	161	MARING E.
	03.00	W	H EC	306	
37	03.00	T THF	LAWSON	161	MARING E.
	TO BE	ARRANGED			
38	03.00	T THF	LAWSON	161	MARING E.
	10.00	M	H EC	201	
39	03.00	T THF	LAWSON	161	MARING E.
	11.00	M	WOODY	1014	
40	03.00	T THF	LAWSON	161	MARING E.
	04.00	W	H EC	306	
41	03.00	T THF	LAWSON	161	MARING E.
	08.00	M	H EC	106	
42	04.00	M W F	LAWSON	141	WALKER
	08.00	TH	H EC	306	
43	04.00	M W F	LAWSON	141	WALKER
	09.00	TH	H EC	306	
44	04.00	M W F	LAWSON	141	WALKER
	10.00	TH	H EC	306	
45	04.00	M W F	LAWSON	141	WALKER
	11.00	TH	H EC	306	
46	04.00	M W F	LAWSON	141	WALKER
	12.00	TH	H EC	306	
47	04.00	M W F	LAWSON	141	WALKER
	01.00	TH	H EC	306	
48	04.00	M W F	LAWSON	141	WALKER
	02.00	TH	H EC	306	
49	04.00	M W F	LAWSON	141	WALKER
	03.00	TH	H EC	306	
50	04.00	M W F	LAWSON	141	WALKER
	04.00	TH	H EC	306	
51	04.00	M W F	LAWSON	141	WALKER
	08.00	F	H EC	306	
52	04.00	M W F	LAWSON	141	WALKER
	09.00	F	H EC	306	
53	04.00	M W F	LAWSON	141	WALKER
	10.00	F	H EC	306	

54	04.00	M W F	LAWSON	141	WALKER
	11.00	F	H EC	306	
102B	MAN AND HIS WORLD		04.0 CR		
1	08.00	T TH	LAWSON	171	
	08.00	M	WOODY	1012	
	08.00	W	H EC	120	
	RESTRICTED TO PRESIDENT SCHOLARS: SECT 1				
2	08.00	T TH	LAWSON	171	
	08.00	M W	WHAM	202	
	TO BE ARRANGED		WHAM		
3	08.00	T TH	LAWSON	171	
	08.00	M	WHAM	201	
	08.00	W	WHAM	307	
4	08.00	T TH	LAWSON	171	
	TO BE ARRANGED		WOODY		
5	08.00	T TH	LAWSON	171	
	TO BE ARRANGED		WOODY		
6	08.00	T TH	LAWSON	171	
	TO BE ARRANGED		WOODY		
7	08.00	T TH	LAWSON	171	
	TO BE ARRANGED		WOODY		
8	08.00	T TH	LAWSON	171	
	10.00	M W	PHY SC	118	
9	11.00	M W	LAWSON	171	
	12.00	M W	AG	188	
10	11.00	M W	LAWSON	171	
	12.00	M W	COMM	112	
11	11.00	M W	LAWSON	171	
	12.00	M W	AG	222	
12	11.00	M W	LAWSON	171	
	TO BE ARRANGED				
13	11.00	M W	LAWSON	171	
	01.00	T TH	H EC	122	
14	11.00	M W	LAWSON	171	
	01.00	M W	WARREN	129	
15	11.00	M W	LAWSON	171	
	02.00	M W	LAWSON	221	
16	11.00	M W	LAWSON	171	
	02.00	M W	WOODY	1014	
17	12.00	T TH	LAWSON	171	
	02.00	T TH	PHY SC	116	
18	12.00	T TH	LAWSON	171	
	02.00	T TH	PHY SC	218	
19	12.00	T TH	LAWSON	171	
	02.00	T TH	PIERCE	130	
20	12.00	T TH	LAWSON	171	
	04.00	T TH	AG	116	
21	12.00	T TH	LAWSON	171	
	04.00	T TH	AG	148	
22	12.00	T TH	LAWSON	171	
	04.00	T TH	AG	150	
23	12.00	T TH	LAWSON	171	
	12.00	W F	AG	154	
24	12.00	T TH	LAWSON	220	
	12.00	W F	AG	220	
25	12.00	T TH	LAWSON	171	
	12.00	W F	AG	148	
26	02.00	T TH	LAWSON	171	
	08.00	T TH	AG	224	
27	02.00	T TH	LAWSON	171	
	08.00	T TH	AG	220	
28	02.00	T TH	LAWSON	171	
	08.00	T TH	AG	154	
29	02.00	T TH	LAWSON	171	
	09.00	T TH	AG	154	
30	02.00	T TH	LAWSON	171	
	09.00	T TH	PHY SC	218	
31	02.00	T TH	LAWSON	171	
	09.00	T TH	PIERCE	130	
32	02.00	T TH	LAWSON	171	
	10.00	T TH	WARREN	129	
33	02.00	T TH	LAWSON	171	
	10.00	T TH	AG	168	

34	02.00	T TH	LAWSON	171	
	10.00	TH	AG	154	
	10.00	T	AG	224	
35	04.00	T TH	LAWSON	171	
	11.00	T TH	PHY SC	118	
36	04.00	T TH	LAWSON	171	
	11.00	T TH	PIERCE	130	
37	04.00	T TH	LAWSON	171	
	11.00	T TH	AG	144	
38	04.00	T TH	LAWSON	171	
	12.00	T TH	AG	148	
39	04.00	T TH	LAWSON	171	
	12.00	T TH	AG	154	
40	04.00	T TH	LAWSON	171	
	01.00	T TH	PHY SC	118	
41	04.00	T TH	LAWSON	171	
	01.00	T TH	AG	220	
42	04.00	T TH	LAWSON	171	
	12.00	T TH	AG	188	
43	04.00	T TH	LAWSON	171	
	01.00	T TH	AG	150	
2018	SOCIETY + BEHAVIOR		04.0	CR	
1	08.00	T TH	PHY SC	218	
	08.00	F	LS I	16	
2	09.00	M W	WHAM	105	PATTERSON
	08.00	T TH	BAILEY	130	
3	09.00	M W	WHAM	105	PATTERSON
	10.00	T TH	BAILEY	130	
4	09.00	M W	WHAM	105	PATTERSON
	11.00	T TH	BAILEY	130	
5	09.00	M W	WHAM	105	PATTERSON
	12.00	T TH	BAILEY	130	
6	09.00	M W	WHAM	105	PATTERSON
	01.00	T TH	BAILEY	130	
7	09.00	M W	WHAM	105	PATTERSON
	02.00	T TH	BAILEY	130	
8	09.00	M W	WHAM	105	PATTERSON
	03.00	T TH	BAILEY	130	
9	09.00	M W	WHAM	105	PATTERSON
	04.00	T TH	LS I	16	
10	09.00	M W F	MAIN	209	
11	10.00	T TH	LAWSON	161	GASTON
	08.00	W F	WHAM	228	
12	10.00	T TH	LAWSON	161	GASTON
	10.00	W F	H C	202	
13	10.00	T TH	LAWSON	161	GASTON
	11.00	W	COMM	111	
	11.00	F	COMM	118	
14	10.00	T TH	LAWSON	161	GASTON
	11.00	W F	H C	202	
15	10.00	T TH	LAWSON	161	GASTON
	12.00	W F	AG	224	
16	10.00	T TH	LAWSON	161	GASTON
	01.00	W F	AG	214	
17	10.00	T TH	LAWSON	161	GASTON
	03.00	W F	MAIN	206	
18	10.00	T TH	LAWSON	161	GASTON
	04.00	W F	MAIN	206	
19	12.00	T TH	WHAM	302	
	12.00	F	LAWSON	101	
20	04.00	T TH	LAWSON	171	NALL
	08.00	M W	COMM	116	
21	04.00	T TH	LAWSON	171	NALL
	10.00	M W	BAILEY	130	
SECT 21-RESERVED FOR PRESIDENTS SCHOLARS					
22	04.00	M W	LAWSON	171	NALL
	11.00	M W	BAILEY	130	
23	04.00	M W	LAWSON	171	NALL
	11.00	M	WHAM	112	
	11.00	W	MAIN	310	
24	04.00	M W	LAWSON	171	NALL
	12.00	M W	BAILEY	130	



25	04.00	M W	LAWSON	171	NALL
	01.00	M W	BAILEY	130	
26	04.00	M W	LAWSON	171	NALL
	02.00	M W	BAILEY	130	
27	04.00	M W	LAWSON	171	NALL
	03.00	M W	BAILEY	130	
28	07.35-09.15 PM	M W	WHAM	112	
29	07.35-09.15 PM	M W	LAWSON	101	
201C	SOCIETY + BEHAVIOR		04.0	CR	
1	11.00	M W	LAWSON	141	CARRIER
	01.00-02.50	W	WOODY	39	
2	11.00	M W	LAWSON	141	CARRIER
	06.00-07.50 PM	W	WOODY	39	
3	11.00	M W	LAWSON	141	CARRIER
	08.00-09.50	TH	WOODY	39	
4	11.00	M W	LAWSON	141	CARRIER
	10.00-11.50	TH	WOODY	39	
5	11.00	M W	LAWSON	141	CARRIER
	01.00-02.50	TH	WOODY	39	
6	11.00	M W	LAWSON	141	CARRIER
	03.00-04.50	TH	WOODY	39	
7	11.00	M W	LAWSON	141	CARRIER
	08.00-09.50	F	WOODY	39	
8	11.00	M W	LAWSON	141	CARRIER
	12.00-01.50	F	WOODY	39	
9	11.00	M W	LAWSON	141	CARRIER
	08.00-09.50	S	WOODY	39	
10	11.00	M W	LAWSON	141	CARRIER
	10.00-11.50	S	WOODY	39	
11	04.00	M W	LAWSON	151	CARRIER
	01.00-02.50	W	AG	148	
12	04.00	M W	LAWSON	151	CARRIER
	06.00-07.50 PM	TH	AG	148	
13	04.00	M W	LAWSON	151	CARRIER
	08.00-09.50	TH	AG	148	
14	04.00	M W	LAWSON	151	CARRIER
	10.00-11.50	TH	AG	148	
15	04.00	M W	LAWSON	151	CARRIER
	01.00-02.50	TH	AG	154	
16	04.00	M W	LAWSON	151	CARRIER
	03.00-04.50	TH	AG	154	
17	04.00	M W	LAWSON	151	CARRIER
	08.00-09.50	F	AG	154	
18	04.00	M W	LAWSON	151	CARRIER
	12.00-01.50	F	AG	222	
19	04.00	M W	LAWSON	151	CARRIER
	08.00-09.50	S	AG	116	
20	04.00	M W	LAWSON	151	CARRIER
	10.00-11.50	S	AG	116	
21	06.00-07.40 PM	M	LAWSON	141	
	04.00-05.50	W	WOODY	39	
22	06.00-07.40 PM	M	LAWSON	141	
	03.00-04.50	W	AG	220	
23	06.00-07.40 PM	M	LAWSON	141	
	06.00-07.50 PM	TH	WOODY	39	
24	06.00-07.40 PM	M	LAWSON	141	
	06.00-07.50 PM	W	AG	148	
25	06.00-07.40 PM	M	LAWSON	141	
	10.00-11.50	F	WOODY	39	
26	06.00-07.40 PM	M	LAWSON	141	
	10.00-11.50	F	AG	148	
27	06.00-07.40 PM	M	LAWSON	141	
	02.00-03.50	F	WOODY	39	
28	06.00-07.40 PM	M	LAWSON	141	
	02.00-03.50	F	AG	222	
29	06.00-07.40 PM	M	LAWSON	141	
	12.00-01.50	F	AG	168	
30	06.00-07.40 PM	M	LAWSON	141	
	02.00-03.50	F	AG	168	
211A	POLITICAL ECONOMY		04.0	CR	
I	03.00	MTWTH	LAWSON	141	HAND
211B	POLITICAL ECONOMY		04.0	CR	

1	10.00	M W F	WHAM	105	BAKER
	08.00	T	COMM	120	
2	10.00	M W F	WHAM	105	BAKER
	08.00	TH	PULL	43	
3	10.00	M W F	WHAM	105	BAKER
	09.00	T	LAWSON	131	
4	10.00	M W F	WHAM	105	BAKER
	09.00	TH	WHAM	328	
5	10.00	M W F	WHAM	105	BAKER
	09.00	TH	LAWSON	131	
6	10.00	M W F	WHAM	105	BAKER
	09.00	TH	WHAM	302	
7	10.00	M W F	WHAM	105	BAKER
	12.00	T	WHAM	210	
8	10.00	M W F	WHAM	105	BAKER
	12.00	TH	WHAM	305	
9	10.00	M W F	WHAM	105	BAKER
	08.00	TH	WHAM	206	
10	10.00	M W F	WHAM	105	
	09.00	T	LAWSON	101	
11	12.00	MT THF	WHAM	228	
12	03.00	M W F	WHAM	105	GOODSELL
	01.00	T	AG	228	
13	03.00	M W F	WHAM	105	GOODSELL
	01.00	TH	PULL	43	
14	03.00	M W F	WHAM	105	GOODSELL
	02.00	T	COMM	112	
15	03.00	M W F	WHAM	105	GOODSELL
	02.00	TH	TECH A	222	
16	03.00	M W F	WHAM	105	GOODSELL
	02.00	TH	MAIN	207	
17	03.00	M W F	WHAM	105	GOODSELL
	02.00	TH	AG	214	
18	03.00	M W F	WHAM	105	GOODSELL
	03.00	T	WHAM	228	
19	03.00	M W F	WHAM	105	GOODSELL
	03.00	TH	WHAM	220	
20	03.00	M W F	WHAM	105	GOODSELL
	03.00	TH	AG	222	
21	03.00	M W F	WHAM	105	GOODSELL
	03.00	TH	TECH A	208	
22	05.45-07.25	M W	LAWSON	131	
23	05.45-07.25	T TH	WHAM	201	
24	07.35-09.15 PM	M W	LAWSON	131	
25	07.35-09.15 PM	T TH	WHAM	205	
300A	UNITED STATES HIST		03.0	CR	
1	09.00	M W F	LAWSON	151	CONRAD
2	11.00	M W F	WHAM	105	CARROTT
3	12.00	M W F	PARK	204	
4	07.35-09.00 PM	M W	LAWSON	141	BATINSKI
300B	UNITED STATES HIST		03.0	CR	
1	12.00	T TH	H EC	140B	WERLICH
	12.00	F	LS I	133	
2	02.00	T THF	H EC	140B	MURPHY
300C	UNITED STATES HIST		03.0	CR	
1	02.00	M W F	LS I	133	
302	LAW CIVIL RIGHTS		03.0	CR	
1	01.00	M W F	LAWSON	101	GREGORY
303	INTERNATIONAL REL		03.0	CR	
1	09.00-11.30		S	WHAM	210
2	09.00	M W F	WHAM	228	FORCE
3	02.00	M W F	WHAM	202	CHOU
4	04.00	M WTH	WHAM	228	LEVINE
5	07.00-09.30 PM	T	COMM	111	PAINE
310	CURRENT EVENTS		01.0	CR	
1	10.00		F	LAWSON	161
	08.00	T	COMM	122	
2	10.00		F	LAWSON	161
	08.00		F	PHY SC	410
3	10.00		F	LAWSON	161
	09.00	M	WHLR	207	
4	10.00		F	LAWSON	161
	09.00	T	COMM	122	

GSB

5	10.00		F	LAWSON	161	
	09.00		TH	BAILEY	130	
6	10.00		F	LAWSON	161	
	11.00		W	WHAM	317	
7	10.00		F	LAWSON	161	
	12.00		F	AG	148	
8	10.00		F	LAWSON	161	
	12.00		TH	COMM	214	
9	10.00		F	LAWSON	161	
	01.00		W	PIERCE	130	
10	10.00		F	LAWSON	161	
	01.00		F	PIERCE	130	
11	10.00		F	LAWSON	161	
	02.00		TH	LS I	323	
12	10.00		F	LAWSON	161	
	03.00		T	COMM	120	
311	ECON DEVELOP OF U S			03.0	CR	
	PREREQ GSB 101B, CR 211A, 8, OR 215					
1	10.00		M W F	LAWSON	231	ADAMS
312	COMPAR ECON SYSTEMS			03.0	CR	
	PREREQ GSB 211A CR 215					
1	01.00		THF	LAWSON	201	JAM
	01.00		M	LAWSON	121	
314	ECON ANAL AG POL US			03.0	CR	
	PREREQ GSB 211					
1	08.00		TW F	AG	225	CSBURN
2	08.00		T THF	AG	225	CSBURN
321	SOCIALIZAT OF INDIV			03.0	CR	
1	08.00		M W F	MAIN	207	NALL
2	10.00		M W F	LAWSON	121	NALL
3	01.00		M	PULL H	39	DUNCAN
	01.00		TW	MAIN	308	
325	RACE + MIN RELATION			03.0	CR	
1	02.00		T TH	LAWSON	201	DENISE
	02.00		W	H EC	120	
331	AMER ED SYSTEM			03.0	CR	
1	08.00		M W F	WHAM	328	
2	08.00		MT TH	WHAM	328	
3	09.00		M W F	WHAM	328	
4	10.00		M W F	WHAM	205	
5	11.00		M W F	WHAM	205	
6	01.00		M W F	WHAM	205	
7	02.00		M W F	WHAM	205	
8	03.00		M W F	WHAM	205	
9	06.00-07.25 PM		T TH	WHAM	205	
10	06.00-07.25 PM		M W	WHAM	328	
341	MARRIAGE			03.0	CR	
1	02.00		M W F	WHAM	105	SMITH
345	INTR TO AM FGN POL			03.0	CR	
1	08.00		M W F	PARK	111	LANDECKER
2	10.00		MT TH	LAWSON	131	PAINE
353	ECON GEOG-RES MGT			03.0	CR	
	PREREQ NONE					
1	08.00		M W F	AG	144	
355	GEOG OF U S			03.0	CR	
1	04.00		M WTH	WHAM	302	PENNINGTON
361	FUND OF DECIS MAKE			03.0	CR	
	PREREQ MATH 111-10 A+B OR GSD 108A +B					
1	02.00		M W F	TECH A	111	
380A	E EUR-CULT HERITAGE			03.0	CR	
1	09.00		M W F	MAIN	206	CDAY
385	CONTEMP POL ISMS			03.0	CR	
1	03.00		M W F	PARK	111	KAMARASY
390	INTR TO COMP GOVTS			03.0	CR	
1	10.00		T THF	COMM	111	DALE
2	12.00		M W F	LS I	16	STAUBER
3	02.00		M W F	WHAM	112	BHATTACHARYYA
391	SUB-SAHARAN GOVT			03.0	CR	
1	01.00		TW	COMM	112	DALE
	01.00		F	PARK	111	
392	INTRO L A GOVT POL			03.0	CR	
1	03.00		M W F	H EC	120	GARNER



General Studies Area C—Man's Insights and Appreciation  
(GSC)

100	MUSIC UNDERSTANDING		03.0 CR	
1	08.00	M W	LAWSON 161	FLOYD
	08.00	TH	LAWSON 151	
2	10.00	M W	LAWSON 161	FLOYD
	11.00	F	LAWSON 171	
3	01.00	M W	LAWSON 161	NADAF
	12.00	W	LAWSON 161	
4	02.00	M W	LAWSON 161	BETTERTON
	02.00	TH	LAWSON 161	
5	03.00	M W	LAWSON 161	BETTERTON
	04.00	TH	LAWSON 151	
6	06.00-07.25 PM	M W	LAWSON 161	
101	ART APPRECIATION		03.0 CR	
1	08.00-09.50	M	ALLYN 102	
	09.00	TH	MAIN 207	
2	08.00-09.50	TH	ALLYN 106	
	07.35-08.25 PM	M	MAIN 210	
3	10.00	T TH	LAWSON 141	
	08.00-09.50	M	ALLYN 102	
4	10.00	T TH	LAWSON 141	
	08.00-09.50	S	ALLYN 106	
5	10.00	T TH	LAWSON 141	
	03.00-04.50	M	ALLYN 102	
6	10.00	T TH	LAWSON 141	
	01.00-02.50	M	ALLYN 102	
7	10.00	T TH	LAWSON 141	
	01.00-02.50	F	ALLYN 102	
8	10.00	T TH	LAWSON 141	
	03.00-04.50	W	ALLYN 102	
9	10.00	T TH	LAWSON 141	
	11.00-12.50	F	ALLYN 102	
10	10.00	T TH	LAWSON 141	
	08.00-09.50	W	ALLYN 102	
11	10.00	T TH	LAWSON 141	
	10.00-11.50	S	ALLYN 102	
12	10.00	T TH	LAWSON 141	
	11.00-12.50	M	ALLYN 102	
13	10.00-11.50	T	ALLYN 102	
	11.00	TH	MAIN 305	
14	11.00-12.50	TH	ALLYN 106	
	02.00	T	MAIN 201	
15	11.00-12.50	TH	ALLYN 102	
	12.00	T	MAIN 102	
16	01.00-02.50	T	ALLYN 102	
	11.00	TH	MAIN 301	
17	01.00-02.50	TH	ALLYN 102	
	01.00	W	MAIN 207	
18	02.00	T TH	LAWSON 141	
	08.00-09.50	TH	ALLYN 102	
19	02.00	T TH	LAWSON 141	
	01.00-02.50	W	ALLYN 102	
20	02.00	T TH	LAWSON 141	
	08.00-09.50	T	ALLYN 102	
21	02.00	T TH	LAWSON 141	
	11.00-12.50	M	ALLYN 102	
22	02.00	T TH	LAWSON 141	
	08.00-09.50	F	ALLYN 102	
23	02.00	T TH	LAWSON 141	
	08.00-09.50	S	ALLYN 112	
24	02.00	T TH	LAWSON 141	
	11.00-12.50	W	ALLYN 102	
25	02.00	T TH	LAWSON 141	
	10.00-11.50	S	ALLYN 112	
26	02.00	T TH	LAWSON 141	
	10.00-11.50	S	ALLYN 106	
27	02.00	T TH	LAWSON 141	
	08.00-09.50	S	ALLYN 102	
28	03.00-04.50	T	ALLYN 102	
	07.35-08.25 PM	TH	MAIN 210	
29	03.00-04.50	TH	ALLYN 102	
	11.00	S	MAIN 102	

30	03.00-04.50		F	ALLYN	102	
	09.00	T		MAIN	309	
31	05.00-06.50		W	ALLYN	102	
	02.00		F	MAIN	305 A	
32	05.00-06.50	T		ALLYN	102	
	06.00	PM	TH	MAIN	203	
33	05.00-06.50	M		ALLYN	102	
	12.00		W	MAIN	210	
34	05.00-06.50		TH	ALLYN	102	
	09.00	T		MAIN	209	
35	05.00-06.50		TH	ALLYN	106	
	04.00	M		MAIN	201	
36	05.00-06.50	T		ALLYN	106	
	09.00		TH	MAIN	209	
37	05.00-06.50		W	ALLYN	106	
	07.35-08.25	PM	T	MAIN	210	
38	05.00-06.50	M		ALLYN	106	
	02.00		TH	MAIN	301	
39	07.35-09.15	PM	T	ALLYN	106	
	07.35-08.25	PM	TH	MAIN	203	
40	07.35-09.15	PM	M	ALLYN	106	
	08.00		TH	MAIN	209	
102	PROB-MORAL DEC-PHIL			03.0	CR	
1	10.00	T	TH	WHAM	105	MOORE
	11.00		TH	H C	202	
2	10.00	T	TH	WHAM	105	MOORE
	12.00		TH	H C	202	
3	10.00	T	TH	WHAM	105	MOORE
	01.00		TH	H C	202	
4	10.00	T	TH	WHAM	105	MOORE
	02.00		TH	H EC	120	
5	10.00	T	TH	WHAM	105	MOORE
	03.00		TH	H C	202	
6	10.00	T	TH	WHAM	105	MOORE
	08.00		F	H EC	122	
7	10.00	T	TH	WHAM	105	MOORE
	09.00		F	WHAM	205	
8	10.00	T	TH	WHAM	105	MOORE
	10.00		F	H EC	208	
9	10.00	T	TH	WHAM	105	MOORE
	11.00		F	LS I	16	
10	10.00	T	TH	WHAM	105	MOORE
	01.00		F	H C	202	
11	10.00	T	TH	WHAM	105	MOORE
	09.00	T		H EC	118	
12	10.00	T	TH	WHAM	105	MOORE
	01.00	M		MAIN	308	
13	11.00	M	W	LAWSON	161	SCHILPP
	01.00		W	H C	202	
14	11.00	M	W	LAWSON	161	SCHILPP
	02.00		W	H EC	118	
15	11.00	M	W	LAWSON	161	SCHILPP
	03.00		W	WHAM	317	
16	11.00	M	W	LAWSON	161	SCHILPP
	08.00		TH	H EC	208	
17	11.00	M	W	LAWSON	161	SCHILPP
	09.00		TH	H EC	208	
18	11.00	M	W	LAWSON	161	SCHILPP
	10.00		TH	H C	202	
19	11.00	M	W	LAWSON	161	SCHILPP
	11.00		F	H EC	120	
20	11.00	M	W	LAWSON	161	SCHILPP
	12.00		TH	H EC	208	
21	11.00	M	W	LAWSON	161	SCHILPP
	01.00		TH	H EC	208	
22	11.00	M	W	LAWSON	161	SCHILPP
	02.00		TH	H EC	208	
23	11.00	M	W	LAWSON	161	SCHILPP
	03.00		TH	H EC	208	
24	11.00	M	W	LAWSON	161	SCHILPP
	08.00		F	H C	202	
25	11.00	T	TH	WHAM	105	HAYWARD
	01.00		TH	H EC	120	

26	11.00	T TH	WHAM	105	HAYWARD
	02.00	TH	MAIN	305A	
27	11.00	T TH	WHAM	105	HAYWARD
	03.00	TH	H EC	118	
28	11.00	T TH	WHAM	105	HAYWARD
	08.00	F	MAIN	304A	
29	11.00	T TH	WHAM	105	HAYWARD
	09.00	F	H C	202	
30	11.00	T TH	WHAM	105	HAYWARD
	12.00	TH	H EC	106	
31	11.00	T TH	WHAM	105	HAYWARD
	11.00	F	COMM	122	
32	11.00	T TH	WHAM	105	HAYWARD
	12.00	F	H C	202	
33	11.00	T TH	WHAM	105	HAYWARD
	01.00	F	MAIN	310	
34	11.00	T TH	WHAM	105	HAYWARD
	09.00	T	H EC	201	
35	11.00	T TH	WHAM	105	HAYWARD
	03.00	F	MAIN	304A	
36	11.00	T TH	WHAM	105	
	02.00	F	H EC	206	
37	01.00	T TH	LAWSON	171	HOWIE
	08.00	M	H EC	122	
38	01.00	T TH	LAWSON	171	HOWIE
	09.00	M	WHLR	113	
39	01.00	T TH	LAWSON	171	HOWIE
	10.00	M	H C	202	
40	01.00	T TH	LAWSON	171	HOWIE
	11.00	M	H C	202	
41	01.00	T TH	LAWSON	171	HOWIE
	12.00	M	H C	202	
42	01.00	T TH	LAWSON	171	HOWIE
	01.00	M	H C	202	
43	01.00	T TH	LAWSON	171	HOWIE
	08.00	T	H EC	208	
44	01.00	T TH	LAWSON	171	HOWIE
	09.00	T	H EC	208	
45	01.00	T TH	LAWSON	171	HOWIE
	10.00	T	H C	202	
46	01.00	T TH	LAWSON	171	HOWIE
	11.00	T	H C	202	
47	01.00	T TH	LAWSON	171	HOWIE
	10.00	T	H EC	120	
48	01.00	T TH	LAWSON	171	HOWIE
	11.00	T	H EC	201	
49	03.00	T TH	LAWSON	151	LIU
	08.00	M	H EC	202	
50	03.00	T TH	LAWSON	151	LIU
	09.00	M	H C	202	
51	03.00	T TH	LAWSON	151	LIU
	12.00	M	MAIN	304A	
52	03.00	T TH	LAWSON	151	LIU
	02.00	M	MAIN	307	
53	03.00	T TH	LAWSON	151	LIU
	08.00	T	H EC	202	
54	03.00	T TH	LAWSON	151	LIU
	12.00	T	H EC	208	
55	03.00	T TH	LAWSON	151	LIU
	01.00	T	H EC	208	
56	03.00	T TH	LAWSON	151	LIU
	02.00	T	H EC	208	
57	03.00	T TH	LAWSON	151	LIU
	09.00	T	H EC	102	
58	03.00	T TH	LAWSON	151	LIU
	10.00	F	H EC	201	
59	03.00	T TH	LAWSON	151	LIU
	08.00	F	WHAM	205	
60	03.00	T TH	LAWSON	151	LIU
	11.00	F	H EC	201	
61	07.35-08.25 PM	T TH	LAWSON	161	ALLEN
	08.00	F	GYM	203	



62	07.35-08.25 PM	T TH	LAWSON	161	ALLEN
	03.00	F	WHLR	207	
63	07.35-08.25 PM	T TH	LAWSON	161	ALLEN
	01.00	F	CL	24	
64	07.35-08.25 PM	T TH	LAWSON	161	ALLEN
	02.00	F	MAIN	201	
65	07.35-08.25 PM	T TH	LAWSON	161	ALLEN
	08.00	M	MAIN	201	
66	07.35-08.25 PM	T TH	LAWSON	161	ALLEN
	10.00	M	MAIN	304 A	
67	07.35-08.25 PM	T TH	LAWSON	161	ALLEN
	12.00	M	MAIN	305 A	
68	07.35-08.25 PM	T TH	LAWSON	161	ALLEN
	03.00	M	AG	116	
69	07.35-08.25 PM	T TH	LAWSON	161	ALLEN
	09.00	T	MAIN	303	
70	07.35-08.25 PM	T TH	LAWSON	161	ALLEN
	11.00	T	MAIN	309	
71	07.35-08.25 PM	T TH	LAWSON	161	ALLEN
	01.00	T	MAIN	210	
72	07.35-08.25 PM	T TH	LAWSON	161	ALLEN
	03.00	T	MAIN	203	
103	WORLD LIT FOR COMP		03.0 CR		
	PREREQ	GSD 102	OR THE APPROPRIATE	ACT	SCORE
1	08.00	M W F	MAIN	305	
2	08.00	T TH	MAIN	305	
	08.00	M	MAIN	304 A	
3	08.00	M W F	WHLR	203	
4	08.00	T THF	WHAM	208	
5	08.00	M W F	PARK	301	
6	08.00	T TH	WHAM	317	
	08.00	F	WHAM	319	
7	09.00	M W F	MAIN	303	
8	09.00	T TH	MAIN	305	
	09.00	F	MAIN	301	
9	09.00	F	WOODY	1014	
	09.00	W S	MAIN	306 A	
10	09.00	W	WHAM	312	
	09.00	F	MAIN	102	
	09.00	T	MAIN	207	
11	09.00	M W F	WARREN	129	
12	09.00	T	H EC	206	
	09.00	W	PULL	41	
	09.00	F	WOODY	1014	
13	10.00	M W F	MAIN	305	
14	10.00	T TH	MAIN	305	
	10.00	M	WOODY	1010	
15	10.00	M	WOODY	1010	
	10.00	F	ARENA	125	
	10.00	W	WHAM	321	
16	10.00	T TH	CL	109	
	10.00	F	MAIN	302	
17	10.00	M W F	AG	150	
18	10.00	T THF	AG	116	
19	11.00	M W F	ARENA	125	
20	11.00	T TH	MAIN	305 A	
	11.00	F	WHAM	203	
21	11.00	M W F	MAIN	209	
22	11.00	M W F	MAIN	307	
23	11.00	M W	H EC	118	
	11.00	F	MAIN	201	
24	11.00	MT	PULL	39	
	11.00	TH	WHAM	321	
25	12.00	T F	AG	150	
	12.00	W	MAIN	303	
26	12.00	M W F	MAIN	209	
27	12.00	T TH	WHAM	312	
	12.00	F	MAIN	310	
28	12.00	M W F	FELTS	130	
29	12.00	M W F	MAIN	203	
30	01.00	M WTH	WHAM	312	
31	01.00	T F	WHAM	312	
	01.00	W	MAIN	307	

32	01.00	MT TH	MAIN	307	
33	01.00	M W F	TECH A	122	
34	01.00	T TH	H EC	118	
	01.00	F	H EC	206	
35	01.00	T F	MAIN	201	
	01.00	W	WHAM	301A	
36	02.00	M WTH	WHAM	312	
37	02.00	T F	WHAM	312	
	02.00	W	MAIN	307	
38	02.00	T TH	MAIN	304A	
	02.00	F	MAIN	307	
39	02.00	M W F	PIERCE	130	
	02.00	M	WHLR	113	
40	02.00	M W	TECH A	122	
	02.00	F	PULL	43	
41	03.00	M WTH	WHAM	312	
42	03.00	M	PARK	204	
	03.00	W F	MAIN	306A	
43	03.00	W F	PARK	204	
	03.00	T	H C	202	
44	03.00	M	PULL	43A	
	03.00	W F	WHLR	113	
45	04.00	M WTH	WHAM	312	
46	04.00	TW F	WHAM	307	
47	04.00	M WTH	WHAM	205	
48	04.00	M W F	MAIN	203	
49	06.00-07.15 PM	T TH	MAIN	305	
50	06.00-07.15 PM	T TH	MAIN	306A	
51	06.00-07.15 PM	M W	WHAM	319	
52	06.00-07.15 PM	M W	H EC	122	
53	06.00-07.15 PM	M W	H EC	206	
54	07.35-08.50 PM	M W	MAIN	305	
55	07.35-08.50 PM	T TH	MAIN	305	
56	07.35-08.50 PM	T TH	MAIN	306A	
57	07.35-08.50 PM	M W	WHAM	319	
58	07.35-08.50 PM	M W	H C	202	
59	07.35-08.50 PM	M W	H EC	206	
60	07.35-08.50 PM	T TH	H EC	120	
110A	WESTERN HUMANITIES		03.0	CR	
1	10.00	M W F	LAWSON	151	PLOCHMANN
200	ORAL INTERP OF LIT		04.0	CR	
1	08.00	MTWTH	COMM	118	
2	09.00	M W F	PULL	43A	
	09.00	T	PULL	39	
3	10.00	TWTHF	COMM	118	
4	12.00	MTW F	COMM	118	
5	12.00	MTW F	COMM	214	
6	01.00	MTWTH	COMM	118	
7	01.00-02.50	T TH	WHAM	205	
8	02.00	MTWTH	COMM	118	
9	03.00	MTWTH	COMM	118	
10	04.00	MTWTH	COMM	118	
11	07.35-09.00 PM	T TH	LAWSON	121	
12	07.35-09.00 PM	M W	COMM	118	
201	INTRO TO DRAMA		03.0	CR	
1	08.00	M W F	MAIN	203	
2	08.00	M	AG	216	
	08.00	W F	AG	188	
3	09.00	T TH	MAIN	203	
	09.00	F	WHAM	206	
4	10.00	M W F	MAIN	306A	
5	11.00	T TH	AG	150	
	11.00	F	WHLR	203	
6	12.00	M W F	WHAM	303	
7	01.00	M W	TECH A	220	
	01.00	F	TECH A	320	
8	01.00	M	WHAM	210	
	01.00	T TH	MAIN	206	
9	02.00	M W F	WHAM	303	
10	03.00	M W F	WHAM	303	
11	04.00	M W F	WHAM	303	
12	06.00-07.15 PM	M W	WHAM	303	
13	07.35-08.50 PM	T TH	MAIN	102	

202	INTRO TO POETRY		03.0	CR	
1	08.00	T TH	WHAM	303	
	08.00	F	MAIN	302	
2	08.00	T TH	WHLR	113	
	08.00	F	WHLR	107	
3	10.00	T TH	WHAM	303	
	10.00	F	WHAM	206	
4	11.00	M W F	MAIN	305 A	
5	12.00	M	WHAM	307	
	12.00	T TH	WHAM	303	
6	12.00	M W F	MAIN	302	
7	01.00	M	WHAM	307	
	01.00	T TH	WHAM	303	
8	02.00	M	WHAM	307	
	02.00	T TH	WHAM	303	
9	03.00	M	WHAM	307	
	03.00	T TH	WHAM	303	
10	03.00	M W F	AG	154	
11	04.00	M	WHAM	307	
	04.00	T TH	WHAM	303	
12	06.00-07.15 PM	T TH	WHAM	303	
203	DRAMA-ARTS OF THEA		03.0	CR	
1	11.00	T TH	COMM	137	
	03.00	TH	COMM	120	
2	11.00	T TH	COMM	137	
	04.00	TH	COMM	112	
3	11.00	T TH	COMM	137	
	04.00	F	COMM	112	
4	11.00	T TH	COMM	137	
	01.00	TH	COMM	112	
5	11.00	T TH	COMM	137	
	01.00	F	COMM	112	
6	11.00	T TH	COMM	137	
	12.00	F	COMM	112	
7	11.00	T TH	COMM	137	
	02.00	TH	COMM	120	
8	11.00	T TH	COMM	137	
	02.00	F	COMM	116	
9	11.00	T TH	COMM	137	
	12.00	TH	AG	222	
10	11.00	T TH	COMM	137	
	03.00	W	WHAM	328	
11	11.00	T TH	COMM	137	
	03.00	W	COMM	111	
12	11.00	T TH	COMM	137	
	03.00	W	PIERCE	130	
204	MEANING IN VIS ARTS		04.0	CR	
	PREREQ GSC 101 CR CONSENT				
1	04.00	MT THF	LAWSON	161	NAPPER
205	MANS CONTEMP ENVIR		04.0	CR	
1	11.00-12.50	T	LAWSON	151	GROSCWSKY
	12.00	TH	LAWSON	151	
	11.00	F	LAWSON	151	
2	03.00-04.50	T	LAWSON	121	GROSCWSKY
	03.00	THF	LAWSON	121	
3	06.00-07.50 PM	M	LAWSON	151	
	07.00 PM	WTH	LAWSON	151	
206	FOUNDATIONS OF MUS		04.0	CR	
1	12.00	TWTHF	ALTG	116	BETTERTON
2	02.00	TWTHF	ALTG	116	INTRAVAIA
207	PHIL OF BEAUTIFUL		03.0	CR	
1	10.00	T TH	LAWSON	171	MCCLURE
	11.00	TH	CL	109	
2	10.00	T TH	LAWSON	171	MCCLURE
	08.00	F	H EC	106	
3	10.00	T TH	LAWSON	171	MCCLURE
	10.00	F	WHAM	210	
4	10.00	T TH	LAWSON	171	MCCLURE
	01.00	F	COMM	118	
5	10.00	T TH	LAWSON	171	MCCLURE
	02.00	F	WHAM	329	
6	10.00	T TH	LAWSON	171	MCCLURE
	08.00	M	H EC	203	



7	10.00	T TH	LAWSON	171	MCCLURE
	12.00	TH	H EC	120	
8	10.00	T TH	LAWSON	171	MCCLURE
	08.00	T	H EC	120	
9	10.00	T TH	LAWSON	171	MCCLURE
	03.00	M	H EC	118	
10	10.00	T TH	LAWSON	171	MCCLURE
	02.00	TH	WHAM	202	
11	10.00	T TH	LAWSON	171	MCCLURE
	03.00	TH	MAIN	203	
12	10.00	T TH	LAWSON	171	
	01.00	TH	FELTS	130	
208	LOGIC AND MEANING		04.0 CR		
1	09.00	M W F	LAWSON	161	EAMES
	10.00	F	H EC	120	
2	09.00	M W F	LAWSON	161	EAMES
	11.00	F	H EC	306	
3	09.00	M W F	LAWSON	161	EAMES
	12.00	F	H EC	120	
4	09.00	M W F	LAWSON	161	EAMES
	01.00	F	GYM	204	
5	09.00	M W F	LAWSON	161	EAMES
	02.00	F	MAIN	102	
6	09.00	M W F	LAWSON	161	EAMES
	03.00	F	MAIN	309	
7	09.00	M W F	LAWSON	161	EAMES
	10.00	F	LAWSON	221	
8	09.00	M W F	LAWSON	161	EAMES
	01.00	TH	H EC	106	
9	09.00	M W F	LAWSON	161	EAMES
	02.00	F	WHAM	228	
10	09.00	M W F	LAWSON	161	EAMES
	03.00	F	MAIN	210	
11	09.00	M W F	LAWSON	161	EAMES
	09.00	TH	MAIN	304 A	
12	09.00	M W F	LAWSON	161	EAMES
	10.00	TH	CL	24	
13	10.00	M W	WHAM	308	MOORE
	08.00	W F	H EC	203	
	10.00	F	TECH A	120	
14	10.00	M W	WHAM	308	MOORE
	11.00	T	H EC	206	
	11.00	F	WHAM	328	
15	10.00	M W	WHAM	308	MOORE
	12.00	F	WHAM	302	
16	10.00	M W	WHAM	308	MOORE
	10.00	T	MAIN	306	
17	02.00	M W F	LAWSON	171	EAMES
	03.00	W	WHLR	107	
18	02.00	M W F	LAWSON	171	EAMES
	08.00	TH	H EC	104	
19	02.00	M W F	LAWSON	171	EAMES
	09.00	TH	WHLR	214	
20	02.00	M W F	LAWSON	171	EAMES
	10.00	TH	H EC	120	
21	02.00	M W F	LAWSON	171	EAMES
	11.00	TH	FELTS	130	
22	02.00	M W F	LAWSON	171	EAMES
	12.00	F	WHLR	113	
23	02.00	M W F	LAWSON	171	EAMES
	01.00	F	WHAM	328	
24	02.00	M W F	LAWSON	171	EAMES
	12.00	TH	H EC	201	
25	02.00	M W F	LAWSON	171	EAMES
	08.00	F	MAIN	301	
26	02.00	M W F	LAWSON	171	EAMES
	03.00	TH	PARK	111	
27	02.00	M W F	LAWSON	171	EAMES
	10.00	F	TECH A	122	
28	02.00	M W F	LAWSON	171	EAMES
	11.00	F	WHAM	329	
209	MOD LIT FORM IDEA		04.0 CR		
1	08.00	MT THF	WHAM	307	

2	08.00	MT TH	MAIN	302	
	08.00	W	PULL	39	
3	09.00	MT THF	WHAM	307	
4	10.00	MT THF	WHAM	307	
5	10.00	T TH	WHAM	317	
	10.00	W	WHAM	307	
	10.00	M	WOODY	1010	
6	11.00	MT THF	WHAM	307	
7	11.00	T TH	WHAM	317	
	11.00	W	PULL	41	
	11.00	F	WHAM	208	
8	12.00	TWTHF	WHAM	307	
9	12.00	MT THF	WHAM	329	
10	01.00	TWTHF	WHAM	307	
11	01.00	MT THF	WHLR	203	
12	02.00	TWTHF	WHAM	307	
13	02.00	MT THF	WHAM	319	
14	03.00	MT THF	WHAM	319	
15	04.00	MT THF	WHAM	319	
16	05.45-07.25	M W	WHAM	307	
17	05.45-07.25	T TH	WHAM	317	
18	07.35-09.15 PM	M W	WHAM	307	
19	07.35-09.15 PM	T TH	WHAM	307	
210	INTRO TO FICTION		03.0 CR		
1	08.00	M W F	WHAM	317	
2	08.00	M W	AG	220	
	08.00	F	H EC	118	
3	09.00	M W F	WHAM	317	
4	10.00	M W F	GYM	203	
5	11.00	M W F	GYM	204	
6	12.00	M WTH	GYM	204	
7	01.00	M	H EC	120	
	01.00	WTH	MAIN	210	
8	01.00	T	WHAM	326	
	01.00	W F	WHAM	112	
9	02.00	M WTH	MAIN	306A	
10	02.00	M W F	ARENA	123	
11	02.00	M W F	MAIN	301	
12	03.00	WTH	WHAM	321	
	03.00	M	H EC	104	
13	03.00	M W F	MAIN	308	
14	04.00	WTH	WHAM	317	
	04.00	M	ARENA	120	
15	06.00-07.15 PM	M W	WHAM	317	
16	07.35-08.50 PM	M W	WHAM	303	
17	07.35-08.50 PM	T TH	MAIN	307	
211A	ORIENTAL HUMANITIES		03.0 CR		
1	02.00-02.70	M W F	LAWSON	201	ALLEN
305	CONTEMP FR DRAMA		03.0 CR		
1	04.00	M W F	WHAM	328	ROWLAND
310	REL FOUN-WEST CIVIL		03.0 CR		
1	01.00	T TH	LAWSON	151	MCLEAN
	02.00	TH	H EC	104	
2	01.00	T TH	LAWSON	151	MCLEAN
	03.00	TH	PHY SC	218	
3	01.00	T TH	LAWSON	151	MCLEAN
	10.00	F	H EC	104	
4	01.00	T TH	LAWSON	151	MCLEAN
	11.00	T	H EC	102	
5	01.00	T TH	LAWSON	151	MCLEAN
	12.00	T	H EC	102	
6	01.00	T TH	LAWSON	151	MCLEAN
	08.00	T	H EC	122	
7	01.00	T TH	LAWSON	151	MCLEAN
	08.00	F	PARK	204	
8	01.00	T TH	LAWSON	151	MCLEAN
	03.00	F	WHAM	206	
9	01.00	T TH	LAWSON	151	MCLEAN
	11.00	F	WHAM	210	
10	01.00	T TH	LAWSON	151	MCLEAN
	12.00	F	H EC	122	
11	01.00	T TH	LAWSON	151	MCLEAN
	01.00	F	PULL	43A	

12	01.00	T TH	LAWSON	151	MCLEAN
	02.00	F	PULL	43A	
317	RECENT AMER LIT		03.0	CR	
1	08.00	W F	WHAM	303	
	08.00	T	WHAM	326	
2	09.00	M	H EC	122A	
	09.00	W	MAIN	305A	
	09.00	F	ARENA	121	
3	09.00	M	WOODY	1010	
	09.00	W	WHAM	319	
	09.00	F	TECH A	122	
4	10.00	M W F	MAIN	310	
5	11.00	M W F	MAIN	303	
6	12.00	M W	H EC	120	
	12.00	F	WHAM	202	
7	01.00	M W F	WHAM	329	
8	02.00	M W	AG	168	
	02.00	F	AG	220	
9	03.00	M	MAIN	306	
	01.00	W F	MAIN	303	
10	04.00	M W F	MAIN	302	
11	04.00	M W F	MAIN	102	
12	06.00-07.15 PM	M W	H EC	102	
13	07.35-08.50 PM	M W	WHAM	329	
325	BLACK AMER WRITERS		03.0	CR	
	PREREQ GSC 103 CR EQUIVALENT				
1	09.00	M	WOODY	1014	
	09.00	W	MAIN	206	
	09.00	F	ARENA	125	
2	01.00	M W F	ABBOTT	129	
330	CLASSICAL MYTHOLOGY		03.0	CR	
1	01.00	M WTH	MAIN	309	
2	02.00	M W	H EC	203	
	02.00	TH	H EC	102	
333	BIBLE AS LITERATURE		03.0	CR	
1	02.00	M W F	GYM	204	MCLEAN
340	MODERN ART A-19 CEN		03.0	CR	
1	09.00	M W	LAWSON	141	KURTZ
	09.00	TH	LAWSON	171	
345A	WORLD LITERATURE		03.0	CR	
1	09.00	T TH	WHAM	317	
	09.00	F	AG	224	
2	12.00	T F	WHAM	317	
3	02.00	T TH	MAIN	210	
	02.00	F	COMM	118	
4	03.00	T THF	AG	148	
345B	WORLD LITERATURE		03.0	CR	
1	10.00	M	ARENA	125	
	10.00	W F	WHAM	329	
2	01.00	M W F	WHAM	228	
345C	WORLD LITERATURE		03.0	CR	
1	08.00	M W F	MAIN	209	
2	09.00	T TH	AG	224	
	09.00	F	AG	166	
3	09.00	M	WOODY	1014	
	09.00	W F	WHLR	207	
4	10.00	M	AG	224	
	10.00	T TH	H EC	104	
5	11.00	M W F	H EC	122	
6	12.00	M W F	H EC	206	
7	01.00	M	AG	220	
	01.00	T TH	WHAM	329	
8	02.00	M	CL	326	
	02.00	T TH	PARK	204	
9	02.00	M W F	PARK	204	
10	03.00	M	GYM	204	
	03.00	T TH	WHLR	214	
11	06.00-07.15 PM	M W	MAIN	308	
12	07.35-08.50 PM	M W	H EC	202	
351A	MASTERPIECES NOVEL		03.0	CR	
1	11.00	M	MAIN	308	
	11.00	T TH	MAIN	303	
2	03.00	MT TH	AG	188	



## GSD

351B	MASTERPIECES NOVEL		03.0	CR	
1	11.00	M	H EC	120	
	11.00	T TH	H EC	118	
2	12.00	MT TH	AG	224	
3	02.00	MT	PULL	39	
	02.00	TH	WHAM	205	
4	07.35-08.50 PM	T TH	H EC	102	
363A	PHIL OF SCIENCE		03.0	CR	
1	11.00	M W F	PULL	38	
365	SHAKESPEARE		03.0	CR	
1	10.00	T TH	MAIN	301	
	10.00	M	AG	214	
2	12.00	MT TH	PULL	41	
3	01.00	MT TH	WHAM	112	
4	02.00	M TH	WHAM	317	
	02.00	T	WHAM	202	
5	02.00	M	MAIN	102	
	02.00	T TH	MAIN	203	
6	03.00	MT TH	PULL	43	
7	04.00	M W F	MAIN	210	
8	04.00	MT TH	WHAM	202	
9	06.00-07.15 PM	M W	WHAM	329	
381	GREEK PHILOSOPHY		03.0	CR	
1	08.00	M W F	H EC	208	HOWIE
2	12.00	M W F	H EC	208	ALLEN
3	01.00	M W F	H EC	208	CIEFENBECK
4	02.00	M W F	H EC	208	LIU
5	03.00	M W F	H C	202	KELLY

### General Studies Area D—Organization and Communication of Ideas (GSD)

101	ENGLISH COMPOSITION		03.0	CR	
1	08.00	M	WHAM	303	
	08.00	W F	WHLR	207	
2	08.00	M W F	AG	150	
3	08.00	M W F	MAIN	307	
4	08.00	M W F	WARREN	129	
5	08.00	M W F	TECH A	120	
6	08.00	M	TECH A	122	
	08.00	T TH	TECH A	120	
7	08.00	M	COMM	112	
	08.00	W	COMM	112	
	08.00	F	CL	326	
8	08.00	M	CL	24	
	08.00	W	WHAM	312	
	08.00	F	WHAM	301B	
9	08.00	T TH	MAIN	206	
	08.00	F	WHAM	112	
10	09.00	M W F	FELTS	130	
11	09.00	T TH S	H C	202	
12	09.00	M W	GYM	203	
	09.00	F	LAWSON	121	
13	09.00	T TH S	WARREN	129	
14	09.00	M W	MAIN	102	
	09.00	F	H EC	201	
15	09.00	M W F	MAIN	306	
16	09.00	T TH	MAIN	306	
	09.00	F	TECH A	220	
17	09.00	M	MAIN	201	
	09.00	W	WHAM	321	
	09.00	F	PHY SC	410	
18	09.00	T TH	MAIN	301	
	09.00	F	ARENA	119	
19	09.00	M W F	MAIN	307	
20	09.00	T TH S	MAIN	307	
21	09.00	T TH	MAIN	102	
	09.00	W	WHAM	307	
22	10.00	M	TECH A	220	
	10.00	W	WHAM	120	
	10.00	F	WHAM	308	
23	10.00	T TH	FELTS	130	
	10.00	M	H EC	120	
24	10.00	M W F	WARREN	129	

25	10.00	M W F	MAIN	207
26	10.00	T TH	ARENA	121
	10.00	F	FELTS	130
27	10.00	M W F	MAIN	306
28	10.00	T TH	MAIN	305A
	10.00	M	PULL	43
29	10.00	T TH	AG	150
	10.00	F	AG	220
30	10.00	M W	MAIN	209
	10.00	F	BAILEY	130
31	10.00	T TH	MAIN	307
	10.00	F	PULL	43A
32	10.00	T TH	PULL	38
	10.00	F	MAIN	303
33	10.00	TW	PULL	39
	10.00	F	MAIN	309
34	10.00	T	AG	148
	10.00	THF	LS I	16
35	11.00	M W F	PIERCE	130
36	11.00	T TH	WARREN	129
	11.00	F	COMM	112
37	11.00	M W F	GYM	203
38	11.00	T TH S	GYM	203
39	11.00	M W F	MAIN	306
40	11.00	M W F	WARREN	129
41	11.00	T TH	MAIN	307
	11.00	F	H EC	104
42	11.00	M W F	AG	220
43	11.00	M	AG	188
	11.00	T TH	AG	220
44	12.00	M W F	CL	24
45	12.00	T TH	FELTS	130
	12.00	F	WARREN	129
46	12.00	M W	MAIN	206
	12.00	TH	H EC	118
47	12.00	M TH	GYM	203
	12.00	W	H EC	122
48	12.00	T TH	MAIN	306
	12.00	F	MAIN	310
49	12.00	M W F	MAIN	306
50	12.00	M WTH	AG	150
51	12.00	M W F	WHAM	305
52	12.00	T TH	MAIN	209
	12.00	F	MAIN	306A
53	12.00	M WTH	CL	109
54	12.00	M W F	TECH A	120
55	12.00	TW F	GYM	203
56	12.00	M W F	WHAM	312
57	01.00	M W F	FELTS	130
58	01.00	M TH	GYM	203
	01.00	W	WHAM	317
59	01.00	TW F	GYM	203
60	01.00	T TH	MAIN	306
	01.00	F	MAIN	102
61	01.00	M W F	MAIN	306
62	01.00	M WTH	MAIN	201
63	01.00	M WTH	MAIN	306A
64	01.00	M	WOODY	1010
	01.00	W	WHAM	202
	01.00	TH	WHAM	228
65	01.00	MT TH	WHAM	317
66	01.00	T THF	MAIN	209
67	01.00	T F	MAIN	306A
	01.00	TH	LS I	205
68	02.00	M W F	FELTS	130
69	02.00	T TH	FELTS	130
	02.00	F	WARREN	129
70	02.00	M WTH	WARREN	129
71	02.00	W	ABBOTT	129
	02.00	M TH	GYM	203
72	02.00	TW F	GYM	203
73	02.00	T TH	MAIN	306
	02.00	F	WHLR	107

74	02.00	M W F	MAIN	306
75	02.00	M WTH	AG	150
76	02.00	M	ABBOTT	129
	02.00	W	WHLR	43
	02.00	TH	WHLR	214
77	02.00	T THF	CL	109
78	02.00	M W F	MAIN	203
79	02.00	M W	PULL	38
	02.00	F	WHAM	203
80	03.00	T TH	FELTS	130
	03.00	F	PIERCE	130
81	03.00	M WTH	MAIN	210
82	03.00	M TH	GYM	203
	03.00	W	H EC	201
83	03.00	TW F	GYM	203
84	03.00	T TH	MAIN	306
	03.00	F	WHAM	112
85	03.00	M WTH	AG	150
86	03.00	T TH	MAIN	308
	03.00	F	MAIN	310
87	03.00	M	WHAM	301B
	03.00	W F	WHAM	307
88	03.00	M W F	WARREN	129
89	03.00	MT	WHLR	107
	03.00	TH	WHAM	307
90	03.00	T THF	TECH A	222
91	03.00	M W F	TECH A	122
92	03.00	MT	WOODY	39
	03.00	TH	PULL	41
93	04.00	T TH	MAIN	306
	04.00	F	MAIN	306A
94	04.00	M W F	H EC	102
95	04.00	M	CL	109
	04.00	W F	MAIN	301
96	04.00	T TH	MAIN	301
	04.00	F	MAIN	310
97	04.00	MT TH	WHLR	107
98	04.00	MT TH	AG	220
99	04.00	M W F	MAIN	305
100	04.00	M W F	MAIN	305A
101	04.00	M W F	PHY SC	116
102	06.00-07.15 PM	T TH	GYM	203
103	06.00-07.15 PM	M W	MAIN	306
104	06.00-07.15 PM	T TH	MAIN	306
105	06.00-07.15 PM	T TH	WHAM	329
106	06.00-07.15 PM	T TH	WHAM	112
107	06.00-07.15 PM	T TH	WHAM	319
108	06.00-07.15 PM	M W	MAIN	306A
109	06.00-07.15 PM	M W	MAIN	201
110	06.00-07.15 PM	T TH	WHLR	212
111	06.00-07.25 PM	T TH	COMM	112
112	06.00-07.25 PM	M W	PULL	41
113	07.35-08.50 PM	T TH	WHAM	329
114	07.35-08.50 PM	M W	MAIN	306
115	07.35-08.50 PM	T TH	MAIN	306
116	07.35-08.50 PM	T TH	AG	150
117	07.35-08.50 PM	M W	WHAM	317
118	07.35-08.50 PM	T TH	WHAM	112
119	07.35-08.50 PM	M W	MAIN	209
120	07.35-08.50 PM	M W	H EC	120
121	07.35-08.50 PM	M W	H EC	201
122	07.35-08.50 PM	T TH	MAIN	201
123	07.35-08.50 PM	M W	MAIN	201
124	07.35-08.50 PM	T TH	WHLR	212
102	ENGLISH COMPOSITION			03.0 CR
	PREREQ	GSD 101 CR	THE APPROPRIATE ACT SCORE	
1	08.00	T TH	MAIN	203
	08.00	W	MAIN	303
2	08.00	M W F	MAIN	306A
3	08.00	T TH	MAIN	306A
	08.00	M	ABBOTT	129
4	08.00	M W F	CL	109



5	08.00	T TH	CL	109
	08.00	F	COMM	118
6	08.00	T THF	TECH A	122
7	08.00	M	FELTS	130
	08.00	W	WHAM	321
	08.00	TH	H EC	122
8	09.00	T TH	ABBOTT	129
	09.00	F	WHLR	113
9	09.00	M W F	CL	109
10	09.00	T TH	CL	109
	09.00	F	AG	218
11	09.00	M W F	CL	24
12	09.00	T TH S	ARENA	129
13	10.00	T TH	MAIN	303
	10.00	W	MAIN	203
14	10.00	M W F	MAIN	307
15	10.00	T TH	ARENA	121
	10.00	W	MAIN	102
16	10.00	M	LAWSON	221
	10.00	W	MAIN	201
	10.00	F	WHAM	208
17	10.00	T TH	MAIN	306 A
	10.00	W	PIERCE	130
18	10.00	T	WHAM	312
	10.00	TH	WHAM	326
	10.00	F	WHAM	328
19	10.00	T TH	ABBOTT	129
	10.00	F	ARENA	119
20	11.00	T TH	H EC	208
	11.00	W	H EC	120
21	11.00	M W F	CL	109
22	11.00	T TH	MAIN	209
	11.00	F	H EC	118
23	11.00	M W F	MAIN	306 A
24	11.00	T TH	MAIN	306 A
	11.00	W	MAIN	206
25	11.00	T	TECH A	120
	11.00	THF	TECH A	308
26	11.00	T THF	WHAM	301 B
27	12.00	T F	CL	109
	12.00	W	MAIN	304 A
28	12.00	MT TH	MAIN	310
29	12.00	M W F	MAIN	305
30	12.00	T TH	MAIN	305
	12.00	F	MAIN	307
31	12.00	MT TH	MAIN	307
32	12.00	M W	TECH A	122
	12.00	TH	WHAM	210
33	12.00	T F	WHAM	319
	12.00	TH	WHAM	208
34	12.00	M WTH	WHAM	328
35	01.00	T F	MAIN	309
	01.00	W	MAIN	203
36	01.00	MT TH	MAIN	310
37	01.00	M W F	MAIN	305
38	01.00	T TH	MAIN	305
	01.00	F	MAIN	307
39	01.00	MT TH	PIERCE	130
40	01.00	T THF	AG	148
41	01.00	T TH	MAIN	102 A
	01.00	F	MAIN	308
42	02.00	T THF	MAIN	209
43	02.00	M W	CL	109
	02.00	TH	MAIN	305
44	02.00	M W F	MAIN	305
45	02.00	T F	MAIN	306 A
	02.00	W	MAIN	303
46	02.00	M WTH	MAIN	310
47	02.00	T	MAIN	305 A
	02.00	TH	PARK	309
	02.00	F	COMM	214
48	03.00	M WTH	MAIN	310
49	03.00	TW F	MAIN	305

## GSD

50	03.00	M TH	MAIN	305
	03.00	T	MAIN	310
51	03.00	M WTH	MAIN	307
52	03.00	T F	MAIN	307
	03.00	W	TECH A	320
53	03.00	T TH	PIERCE	130
	03.00	F	COMM	118
54	03.00	M W F	TECH A	120
55	04.00	TW F	MAIN	309
56	04.00	M WTH	H EC	118
57	04.00	MT TH	MAIN	306 A
58	04.00	T F	MAIN	307
	04.00	W	MAIN	303
59	06.00-07.15 PM	M W	CL	109
60	06.00-07.15 PM	T TH	CL	109
61	06.00-07.15 PM	M W	WHAM	112
62	06.00-07.15 PM	T TH	MAIN	310
63	06.00-07.15 PM	T TH	MAIN	303
64	06.00-07.25 PM	T TH	MAIN	209
65	07.35-08.50 PM	M W	CL	109
66	07.35-08.50 PM	T TH	CL	109
67	07.35-08.50 PM	M W	MAIN	310
68	07.35-08.50 PM	T TH	MAIN	310
69	07.35-08.50 PM	M W	MAIN	203
70	07.35-09.00 PM	T TH	MAIN	209
103	ORAL COMM OF IDEAS		03.0 CR	
1	08.00	M W F	AG	222
	01.00	TH	LAWSON	231
2	08.00	M W F	COMM	122
	01.00	TH	LAWSON	101
3	08.00	M W F	WHAM	305
	01.00	TH	COMM	122
4	08.00	M W F	COMM	214
	01.00	TH	H EC	201
5	08.00	T TH	AG	222
	08.00	F	AG	220
	12.00	TH	LAWSON	231
6	08.00	T TH	PULL	43 A
	08.00	F	COMM	116
	12.00	TH	LAWSON	101
7	08.00	T TH	COMM	116
	08.00	W	WHAM	329
	12.00	TH	COMM	120
8	08.00	T TH	WHAM	305
	08.00	F	WHAM	210
	12.00	TH	COMM	122
9	09.00	M W F	AG	222
	01.00	TH	LAWSON	231
10	09.00	M W F	COMM	122
	01.00	TH	LAWSON	101
11	09.00	M W F	WHAM	305
	01.00	TH	COMM	122
12	09.00	M W	COMM	214
	09.00	F	COMM	118
	01.00	TH	H EC	201
13	09.00	T TH	AG	222
	09.00	F	AG	170
	12.00	TH	ARENA	119
14	09.00	T TH	PULL	43 A
	09.00	F	COMM	116
	12.00	TH	LAWSON	101
15	09.00	T TH	COMM	118
	09.00	W	WHAM	329
	12.00	TH	COMM	120
16	09.00	T TH	WHAM	305
	09.00	F	WHAM	210
	12.00	TH	COMM	122
17	10.00	MT TH	AG	222
	08.00	TH	LAWSON	231
18	10.00	MT TH	MAIN	308
	08.00	TH	LAWSON	101
19	10.00	MT TH	WHAM	305
	08.00	TH	COMM	122

20	10.00	M	AG	144
	10.00	T TH	PULL	41
	08.00	TH	H EC	201
21	10.00	W F	AG	222
	10.00	T	COMM	120
	09.00	TH	LAWSON	231
22	10.00	T	MAIN	304A
	10.00	W F	AG	154
	10.00	F	AG	216
23	10.00	W F	WHAM	305
	10.00	T	H EC	201
	09.00	TH	COMM	122
24	10.00	TW F	COMM	122
	09.00	TH	H EC	201
25	11.00	MT TH	AG	222
	08.00	TH	LAWSON	231
26	11.00	T TH	MAIN	210
	11.00	M	AG	148
	08.00	TH	LAWSON	101
27	11.00	MT TH	WHAM	305
	08.00	TH	COMM	122
	08.00	TH	H EC	201
28	11.00	W F	AG	222
	11.00	T	COMM	120
	09.00	TH	LAWSON	231
29	11.00	W F	AG	154
	11.00	T	MAIN	301
	09.00	TH	LAWSON	101
30	11.00	W F	WHAM	305
	11.00	TH	H EC	201
	09.00	TH	COMM	122
31	11.00	W F	COMM	116
	11.00	T	COMM	118
	09.00	TH	H EC	201
32	12.00	M WTHF	COMM	116
33	01.00	M W F	COMM	120
	09.00	TH	COMM	120
34	01.00	TWTH	AG	222
	10.00	TH	LAWSON	231
35	01.00	M W F	COMM	122
	10.00	TH	LAWSON	101
36	01.00	M W F	WHAM	305
	10.00	TH	COMM	122
37	02.00	M W F	COMM	120
	09.00	TH	COMM	120
38	02.00	TWTH	AG	222
	10.00	TH	LAWSON	231
39	02.00	M W F	COMM	112
	10.00	TH	LAWSON	101
40	02.00	M W F	WHAM	305
	10.00	TH	COMM	122
41	03.00	M W	AG	222
	11.00	TH	LAWSON	231
	03.00	F	AG	174
42	03.00	T THF	PULL	43A
	11.00	TH	LAWSON	101
43	03.00	M W F	COMM	120
	11.00	TH	COMM	120
44	03.00	MT TH	WHAM	305
	11.00	TH	H EC	206
45	04.00	M WTHF	COMM	120
SECT 45-RESTRICTED TC PRESIDENTS SCHOLARS				
46	04.00	M W F	AG	222
	11.00	TH	LAWSON	231
47	04.00	T THF	PULL	43A
	11.00	TH	LAWSON	101
48	04.00	M W F	COMM	122
	11.00	TH	COMM	120
49	04.00	MT TH	WHAM	305
	11.00	TH	H EC	206
50	06.00-07.25 PM	M W	COMM	116
	08.00	TH	COMM	120



## GSD

51	06.00-07.25 PM	T TH	COMM	116
	10.00	TH	COMM	120
52	06.00-07.25 PM	M W	AG	222
	09.00	TH	H EC	206
53	06.00-07.25 PM	M W	COMM	214
	10.00	TH	H EC	201
54	06.00-07.25 PM	M W	WHAM	305
	11.00	TH	COMM	118
55	06.00-07.25 PM	T TH	AG	222
	12.00	TH	COMM	118
56	06.00-07.25 PM	T TH	LAWSON	121
	01.00	TH	H EC	206
57	06.00-07.25 PM	M W	COMM	122
58	06.00-07.25 PM	T TH	COMM	122
59	07.35-09.00 PM	M W	COMM	116
	08.00	TH	COMM	120
60	07.35-09.00 PM	T TH	COMM	116
	10.00	TH	COMM	120
61	07.35-09.00 PM	M W	AG	222
	09.00	TH	H EC	206
62	07.35-09.00 PM	M W	COMM	214
	10.00	TH	H EC	206
63	07.35-09.00 PM	M W	WHAM	305
	11.00	TH	COMM	118
64	07.35-09.00 PM	T TH	AG	222
	12.00	TH	COMM	118
65	07.35-09.00 PM	T TH	WHAM	305
	01.00	TH	H EC	206
66	07.35-09.00 PM	M W	COMM	122
67	07.35-09.00 PM	T TH	COMM	122
106	INTERMED ALGEBRA		00.0 CR	
1	08.00	TWTHF	H EC	206
2	10.00	M S	AG	166
	10.00	T TH	LS I	323
3	11.00	M	PARK	204
	11.00	T TH S	LS I	323
4	12.00	MT THF	PARK	111
5	01.00	MT THF	MAIN	207
6	03.00	MTWTH	MAIN	309
7	04.00	MTWTH	AG	168
8	05.45-07.25	T TH	AG	168
107A	BASIC COLLEGE MATH		05.0 CR	
	PREREQ H.S. OR GSD 106			
1	08.00	MT THFS	H EC	102
2	08.00	MTWTH S	H EC	118
3	08.00	MTWTHF	MAIN	102
4	09.00	M W	MAIN	301
	09.00	T TH S	PHY SC	118
5	09.00	MTWTHF	WHAM	201
6	10.00	MTWTHF	AG	216
7	10.00	MTWTHF	PARK	204
8	11.00	MTWTHF	WHAM	202
9	11.00	TWTHFS	PARK	204
10	12.00	MTWTHF	LS I	323
11	12.00	MTWTHF	MAIN	301
12	01.00	MTWTHF	PARK	204
13	01.00	MTWTHF	H EC	203
14	02.00	MTWTHF	BROWN	130
15	02.00	M W F	LS I	16
	02.00	T TH	TECH A	208
16	03.00	MTWTHF	AG	216
17	03.00	MTWTHF	BROWN	130
18	06.00-07.25 PM	M WTH	TECH A	320
19	07.35-09.00 PM	M WTH	TECH A	320
20	07.35-09.00 PM	M WTH	TECH A	222
107B	BASIC COLLEGE MATH		03.0 CR	
	PREREQ GSD 107A			
1	08.00	T THF	AG	116
2	09.00	M W	AG	168
	09.00	F	PARK	204
3	10.00	T TH S	TECH D	131
4	11.00	M W F	WHAM	201
5	12.00	M W F	AG	216

6	01.00	T F	TECH A	322	
	01.00	TH	TECH A	308	
7	02.00	M W F	AG	216	
8	04.00	M W F	AG	216	
9	06.00-07.25 PM	T TH	TECH A	222	
109	ELEMENTS OF PROBAB		03.0 CR		
	PREREQ GSD 107A				
1	08.00	M W F	COMM	120	
2	02.00	M W	TECH A	322	
	02.00	F	TECH D	131	
3	04.00	M W F	TECH A	210	
110	ECON-BUS STATISTICS		03.0 CR		
	PREREQ GSD 108B, 114B, OR EQUIV				
1	08.00	MT TH	LAWSON	141	FRYMAN
2	12.00	T THF	LAWSON	141	MARTINSEK
3	06.00-07.15 PM	T TH	WHAM	105	STOWE
120A	ELEMENTARY CHINESE		03.0 CR		
1	10.00	M W F	MAIN	305A	YANG
	10.00	T	MAIN	101	
123A	ELEMENTARY FRENCH		03.0 CR		
1	08.00	M W	MAIN	308	
	08.00	TH	MAIN	307	
	08.00	F	WHLR	5	
2	08.00	T TH S	WHAM	210	
	08.00	F	WHLR	5	
3	09.00	M THF	MAIN	308	
	09.00	W	WHLR	5	
4	09.00	T TH	WHLR	207	
	09.00	F	WHLR	107	
	09.00	W	WHLR	5	
5	10.00	M W	FELTS	130	
	10.00	F	WHLR	207	
	09.00	S	WHLR	5	
6	10.00	T TH	WHLR	207	
	10.00	F	WHAM	317	
	10.00	S	WHLR	5	
7	11.00	F	MAIN	101	
	11.00	W	MAIN	308	
	11.00	T TH	WHLR	5	
ORAL-AURAL APPROACH-SEE NOTE BELOW					
8	11.00	T THF	MAIN	308	
	11.00	W	WHLR	5	
9	12.00	M W F	WHLR	207	
	12.00	TH	WHLR	5	
10	12.00	M W F	MAIN	308	
	12.00	TH	WHLR	5	
11	12.00	TW F	WHLR	214	
	12.00	M	WHLR	5	
12	01.00	M W	WHLR	214	
	01.00	TH	MAIN	308	
	01.00	F	WHLR	5	
13	01.00	MT TH	MAIN	302	
	01.00	F	WHLR	5	
14	02.00	M WTH	WHLR	214	
	02.00	F	WHLR	5	
15	02.00	T TH	H EC	118	
	02.00	M	H EC	120	
	02.00	F	WOODY	5	
16	03.00	M	CL	109	
	03.00	TW	WHLR	5	
	03.00	F	MAIN	101	
ORAL-AURAL APPROACH-SEE NOTE BELOW					
17	04.00	M W F	H EC	122	
	04.00	TH	WHLR	5	
18	04.00	M W F	WHLR	207	
	04.00	TH	WHLR	5	
19	06.00-07.25 PM	T TH	AG	220	
	05.00	T	WHLR	5	
20	07.35-09.00 PM	M W	H EC	102	
	06.00 PM	W	WHLR	5	
123B	ELEMENTARY FRENCH		03.0 CR		
	PREREQ GSD 123A				

## GSD

1	11.00	M WTH	PULL	43
	11.00	F	WHLR	5
123C	ELEMENTARY FRENCH		03.0 CR	
	PREREQ GSD 123B			
1	11.00	T TH	WHAM	303
	11.00	F	WHAM	206
	11.00	W	WHLR	5
2	02.00	M WTH	MAIN	308
	02.00	F	WHLR	5
3	03.00	MT TH	MAIN	306A
	03.00	F	WHLR	5
4	04.00	M THF	MAIN	308
	04.00	W	WHLR	5
5	04.00	M THF	HEC	104
	04.00	W	WHLR	5
	SEE FRENCH LISTING	FCR FRENCH CONVERSATION		
126A	ELEMENTARY GERMAN		03.0 CR	
1	08.00	M W F	WHLR	212
	08.00	T	WHLR	5
2	08.00	M W F	H EC	201
	08.00	T	WHLR	5
3	08.00	M W F	PULL	41
	08.00	S	WHLR	5
4	09.00	M W F	ABBOTT	129
	09.00	T	WHLR	5
5	10.00	M W F	CL	109
	10.00	TH	WHLR	5
6	10.00	M W F	GYM	204
	10.00	TH	WHLR	5
7	12.00	MT F	WHLR	212
	12.00	W	WHLR	5
8	01.00	M	COMM	112
	01.00	F	WHLR	107
	01.00	T	WHLR	5
	01.00	W	AG	220
9	01.00	M	COMM	116
	01.00	W F	MAIN	302
	01.00	T	WHLR	5
10	02.00	M W F	H 202	
	02.00	TH	WHLR	5
11	02.00	M W F	WHLR	207
	02.00	TH	WHLR	5
12	03.00	M W F	WHLR	212
	03.00	TH	WHLR	5
13	03.00	M W F	MAIN	305A
	03.00	TH	WHLR	5
14	04.00	M W F	WHLR	212
	04.00	T	WHLR	5
15	06.00-07.25 PM	M W	WHLR	212
	05.00	W	WHLR	5
16	07.35-09.00 PM	M W	WHLR	212
	06.00 PM	M	WHLR	5
	SEE GERMAN LISTING	FCR GERMAN CONVERSATION		
126B	ELEMENTARY GERMAN		03.0 CR	
	PREREQ GSD 126A			
1	04.00	M W F	H EC	202
	04.00	T	WHLR	5
	SEE GERMAN LISTING	FCR GERMAN CONVERSATION		
126C	ELEMENTARY GERMAN		03.0 CR	
	PREREQ GSD 126B			
1	08.00	M W F	MAIN	305A
	08.00	S	WHLR	5
2	01.00	M W F	MAIN	305A
	01.00	T	WHLR	5
	SEE GERMAN LISTING	FCR GERMAN CONVERSATION		
130A	ELEMENTARY GREEK		03.0 CR	
1	10.00	M W F	AG	188
133A	ELEMENTARY LATIN		03.0 CR	
1	01.00	MT TH	WHLR	113 SHELBY
135A	ELEM PORTUGUESE		03.0 CR	
1	09.00	T F	WHAM	208
	09.00	W	H EC	122
	09.00	M	WHLR	5



2	10.00	MT TH	PULL	43A	FEVERLY
	10.00		WHLR	5	
3	01.00	TW F	H EC	104	HEVERLY
	01.00	M	WHLR	5	
136A	ELEMENTARY RUSSIAN			03.0 CR	
1	08.00	TW F	MAIN	306	
	08.00	M	WHLR	5	
2	10.00	MT	MAIN	302	
	10.00		F	MAIN	308
	10.00	W	WHLR	5	
3	02.00	TW F	WHAM	317	
	02.00	M	WHLR	5	
4	02.00	T	H EC	202	
	02.00	W F	CL	326	
	02.00	M	WHLR	5	
SEE RUSSIAN LISTING FOR CONVERSATION					
5	06.00-07.25 PM	T TH	WHAM	206	
	07.35-08.25 PM	T	WHLR	5	
140A	ELEMENTARY SPANISH			03.0 CR	
1	08.00	M W F	WHLR	214	
	08.00	TH	WHLR	5	
2	08.00	M W	GYM	203	
	08.00		F	GYM	204
	08.00	TH	WHLR	5	
3	08.00	T TH S	WHLR	214	
	08.00	W	WHLR	5	
4	09.00	M W F	MAIN	304A	
	09.00	TH	WHLR	5	
5	09.00	M	WHAM	303	
	09.00	TH	WOODY	5	
	09.00	W	MAIN	302	
6	10.00	M THF	PIERCE	130	
	10.00	T	WHLR	5	
7	10.00	T TH	MAIN	310	
	10.00		F	MAIN	304A
	10.00	M	WHLR	5	
8	10.00	M W F	WHLR	214	
	10.00	T	WHLR	5	
SEE SPANISH LISTING FOR SPANISH CONVERSATION					
9	11.00	M W F	WHLR	214	
	11.00		S	WHLR	5
10	11.00	T TH	TECH A	122	
	11.00		S	WHLR	5
	11.00		F	H EC	206
11	12.00	M W F	H EC	104	
	12.00	T	WHLR	5	
12	01.00	M W F	MAIN	304A	
	01.00	TH	WHLR	5	
13	01.00	M F	MAIN	210	
	01.00	W	WHAM	319	
	01.00	TH	WHLR	5	
14	02.00	M W F	MAIN	304A	
	02.00	T	WHLR	5	
15	02.00	M W	WHLR	113	
	02.00		F	COMM	111
	02.00	T	WHLR	5	
16	02.00	M	MAIN	302	
	02.00	T F	H EC	104	
	02.00	W	WHLR	5	
17	02.00	M	H EC	102	
	02.00	THF	MAIN	302	
	02.00	W	WHLR	5	
18	03.00	TWTH	MAIN	304A	
	03.00	M	WHLR	5	
19	03.00	TW F	H EC	104	
	03.00	M	WHLR	5	
20	04.00	M WTH	MAIN	304A	
	04.00		F	WHLR	5
21	04.00	MT TH	WHLR	207	
	04.00		F	WHLR	5
22	04.00	T F	WHLR	113	
	04.00	W	WHLR	107	
	04.00	M	WHLR	5	

**GSE**

23	06.00-07.25 PM	M W	H EC	134
	05.00	M	WHLR	5
24	06.00-07.25 PM	T TH	H EC	104
	07.35-08.25 PM	TH	WHLR	5
25	06.00-07.25 PM	M W	WHLR	113
	05.00	M	WHLR	5
26	06.00-07.25 PM	T TH	WHAM	305
	07.35-08.25 PM	TH	WHLR	5
27	07.35-09.00 PM	T TH	H EC	134
	06.00 PM	TH	WHLR	5
140B	ELEMENTARY SPANISH		03.0 CR	
	PREREQ SPAN 140A			
1	08.00	M THF	PIERCE	130
	08.00	W	WHLR	5
2	09.00	M W	H EC	120
	09.00	F	PIERCE	130
	09.00	S	WHLR	5
3	12.00	M WTH	WHLR	113
	12.00	F	WHLR	5
	SEE SPANISH LISTING FOR SPANISH CONVERSATION			
	SEE SPANISH LISTING FOR SPANISH CONVERSATION			
140C	ELEMENTARY SPANISH		03.0 CR	
	PREREQ SPAN 140B			
1	10.00	T	H EC	106
	10.00	TH S	MAIN	304A
	10.00	M	WHLR	5
2	11.00	T TH	H EC	120
	11.00	M	WHLR	5
	11.00	F	PULL	41
3	12.00	M W F	WHLR	107
	12.00	T	WHLR	5
4	04.00	MT TH	MAIN	206
	04.00	F	WHLR	5
5	07.35-09.00 PM	T TH	H EC	134
	06.00 PM	T	WHLR	5
144A	ELEMENTARY ITALIAN		03.0 CR	
1	09.00	M W	PIERCE	130
	09.00	F	WHLR	5
	09.00	TH	WHLR	212
2	01.00	M TH	H EC	104
	01.00	F	H EC	201
	01.00	W	WHLR	5
3	06.00-07.25 PM	T TH	WHLR	107
	05.00	TH	WHLR	5

**General Studies Area E—Health and Physical Development  
(GSE)**

100A	RESTRICTED P E		01.0 CR	
1	09.00	T TH	ARENA	555 GREENE
	08.00	T	LAWSON	151
2	10.00	M W F	ARENA	555 OKITA
3	11.00	M W F	ARENA	555 CKITA
101A	SWIMMING-BEGINNING		01.0 CR	
1	08.00	M W F	PULL P	11
2	08.40-09.20	M W F	PULL P	11
3	09.20-10.00	M W F	PULL P	11
4	10.00-10.40	M W F	PULL P	11
5	10.40-11.20	M W F	PULL P	11
6	08.00 PM	MT TH	PULL P	11 HOLDER
101B	SWIMMING - INTERMED		01.0 CR	
1	08.00	T TH	PULL P	11
2	12.00	T TH	PULL P	11 ESSICK
3	07.00-08.50 PM	W	PULL P	11 ESSICK
102	PHYSICAL FITNESS		01.0 CR	
1	08.00	M W	ARENA	555 LONG
	08.00	T	LAWSON	151
2	08.00	T TH	PULL	102 BELL
	11.00	TH	LAWSON	141
3	08.00	T TH	ARENA	555 LONG
	12.00	W	LAWSON	141
4	08.00	M F	PULL	102 BELL
	11.00	TH	LAWSON	141

5	09.00	M W	ARENA	555	LONG
	08.00	T	LAWSON	151	
6	09.00	M F	ARENA	555	HARTMAN
	04.00	M	LS I	133	
7	09.00	T TH	ARENA	555	LONG
	08.00	T	LAWSON	151	
8	09.00	T TH	ARENA	555	
	03.00	F	LAWSON	141	
9	10.00	M F	ARENA	555	HARTMAN
	12.00	W	LAWSON	141	
10	10.00	T TH	ARENA	555	
	08.00	T	LAWSON	151	
11	10.00	T TH	ARENA	555	
	04.00	M	LS I	133	
12	11.00	M F	ARENA	555	
	03.00	F	LAWSON	141	
13	11.00	T TH	PULL	102	
	12.00	W	LAWSON	141	
14	11.00	T F	ARENA	555	
	11.00	TH	LAWSON	141	
15	12.00	M W	ARENA	555	
	11.00	TH	LAWSON	141	
16	12.00	T F	ARENA	555	JONES
	03.00	F	LAWSON	141	
17	12.00	T F	ARENA	555	
	08.00	T	LAWSON	151	
18	01.00	M W	ARENA	555	
	03.00	F	LAWSON	141	
19	01.00	T TH	PULL	102	
	04.00	M	LS I	133	
20	01.00	T F	ARENA	555	JONES
	03.00	F	LAWSON	141	
21	01.00	M W	ARENA	555	
	12.00	W	LAWSON	141	
22	02.00	M W	ARENA	555	
	04.00	M	LS I	133	
23	02.00	T TH	PULL	102	
	12.00	W	LAWSON	141	
103A	SQ AND SOC DANCE		01.0	CR	
1	11.00	M W F	GYM	114	KORENDO
2	12.00	T TH F	GYM	114	WHYMAN
3	04.00-05.30	M W	GYM	114	WHYMAN
4	04.00-05.30	T TH	GYM	114	
5	05.00-06.30	M W	GYM	114	
6	05.00-06.30	T TH	GYM	114	
	CROSS LISTED WITH GSE 113A				
104D	ACTIVITY-BOWLING		01.0	CR	
1	08.00	M W F	U CTR	48	MEADE
2	09.00	M W F	U CTR	48	
3	10.00	M W F	U CTR	48	
4	10.00	T TH S	U CTR	48	JONES
5	11.00	M W F	U CTR	48	
6	11.00	T TH S	U CTR	48	JONES
7	12.00	M W F	U CTR	48	
	GSE 104D FEE REQUIRED				
104E	ACTIVITY-GOLF		01.0	CR	
1	09.00	MTWTH	ARENA	555	BOLICK
2	10.00	MTWTH	ARENA	555	
3	11.00	MTWTH	ARENA	555	
4	01.00	MTWTH	ARENA	555	HOLDER
5	02.00	MTWTH	ARENA	555	WILKINSON
6	03.00	MTWTH	ARENA	555	
	GSE 104E MEETS FIRST NINE WEEKS ONLY				
104H	ACTIVITY-TENNIS		01.0	CR	
1	09.30-10.50	M W	TENNIS	100	IUBELT
2	10.00-11.50	FS	TENNIS	100	
3	11.00	MTWTH	TENNIS	100	
4	12.00	MT TH F	TENNIS	100	IUBELT
5	01.00	MTWTH	TENNIS	100	
6	02.00	MTWTH	TENNIS	100	
	GSE 104H MEETS FIRST NINE WEEKS ONLY				
104I	ACTIVITY-VOLLEYBALL		01.0	CR	



## GSE

	1	01.00-02.50	M W	ARENA	555	MARTIN
		GSE 104I MEETS FIRST NINE WEEKS ONLY				
104U		ACTIVITY-WRESTLING			01.0 CR	
	1	08.00	MTWTH	ARENA	555	MAZIE
	2	09.00	MTWTH	ARENA	555	MAZIE
		GSE 104U MEETS FIRST NINE WEEKS ONLY				
104W		ACTIVITY-JUDO			01.0 CR	
	1	11.00-12.30	T TH	ARENA	555	FRANKLIN
104X		ACTIVITY-HANDBALL			01.0 CR	
	1	08.00	MTWTH	HDBALL	100	BOLICK
	2	09.00	MTWTH	HDBALL	100	REESE
	3	10.00	MTWTH	HDBALL	100	MEADE
	4	11.00	MTWTH	HDBALL	100	BOLICK
		GSE 104X MEETS FIRST NINE WEEKS ONLY-FEE REQUIRED				
105		WEIGHT CONTROL			01.0 CR	
	1	09.00	M W F	ARENA	555	KNOWLTON
		MAY BE TAKEN BY CONSENT OF INSTRUCTOR				
110A		RESTRICTED P E			01.0 CR	
	1	03.00	M W F	GYM	114	COTTON
111A		SWIMMING-BEGINNING			01.0 CR	
	1	09.00-11.00	T TH	GYM	114	CCOPER
	2	11.00-12.30	T TH	GYM	114	COOPER
	3	01.00	M W F	PULL P	11	LEONARD
	4	01.00-02.30	T TH	GYM	114	COOPER
	5	07.00 PM	MT TH	PULL P	11	CCOPER
111B		SWIMMING-INTERMED			01.0 CR	
		PREREQ 111A OR EQUIV				
	1	01.00	M W F	PULL P	11	CCOPER
	2	02.00	M W F	PULL P	11	
	3	03.00	M W F	PULL P	11	
	4	07.00 PM	MT TH	PULL P	11	ILLNER
112		EXERCISE FOR FITNESS			01.0 CR	
	1	09.00	W S	GYM	207	
		12.00	TH	GYM	207	
	2	10.00	M W S	GYM	207	
	3	10.00	T THF	GYM	208	BRECHTELSBAUER
	4	11.00	M S	GYM	207	
		12.00	TH	GYM	207	
	5	05.00-06.30	M W	GYM	207	COTTON
113A		SQUARE DANCE			01.0 CR	
	1	11.00	M W F	GYM	114	KORANDO
	2	12.00	T THF	GYM	114	WHYMAN
	3	04.00-05.30	M W	GYM	114	WHYMAN
	4	04.00-05.30	T TH	GYM	114	
	5	05.00-06.30	M W	GYM	114	
	6	05.00-06.30	T TH	GYM	114	LITHERLAND
113D		DANCE-BEG CONTEMP			01.0 CR	
	1	08.00	M W F	GYM	208	
	2	10.00	M S	GYM	208	
		12.00	T	GYM	207	
	3	02.00	T THF	GYM	208	
	4	03.00	M W F	GYM	208	LITHERLAND
	5	03.00	TWTH	GYM	208	LITHERLAND
	6	04.00	M W F	0813	101	GRAY
114A		ACTIVITY-ARCHERY			01.0 CR	
	1	12.00-01.50	M W	GYM	208	
	2	02.00-03.50	M W	GYM	208	
114B		ACTIVITY-BADMINTON			01.0 CR	
	1	01.00	M W F	GYM	207	
	2	01.00	TWTH	GYM	207	
	3	02.00	M W F	GYM	207	
	4	02.00	TWTH	GYM	207	
	5	03.00-04.30	T TH	GYM	207	
114D		ACTIVITY-BOWLING			01.0 CR	
	1	08.00	M W F	U CTR	48	
	2	09.00	M W F	U CTR	48	
	3	10.00	TW F	U CTR	48	LITHERLAND
	4	10.00	M TH S	U CTR	48	
	5	11.00	M W F	U CTR	48	COOPER
	6	12.00	M W F	U CTR	48	MOORE
	7	12.00-01.30	T TH	U CTR	48	MOORE
	8	01.00	M W F	U CTR	48	MOORE
	9	01.00-02.30	T TH	U CTR	48	LITHERLAND

10	02.00	M W F	U CTR	48	
11	02.00-03.30	T TH	U CTR	48	BRECHTELSBAUER
12	03.00	M W F	U CTR	48	BRECHTELSBAUER
13	03.00-04.30	T TH	U CTR	48	LEONARD
14	04.00	M W F	U CTR	48	MOORE
114H	ACTIVITY-TENNIS			01.0 CR	
1	08.00-09.35	MT THF	GYM	206	LEONARD
	SECT 1 MEETS FIRST SIX WEEKS				
2	09.00-10.35	MT THF	GYM	114	
	MEETS FIRST SIX WEEKS				
3	10.00-11.35	TWTHF	GYM	114	COTTON
	MEETS FIRST SIX WEEKS				
4	10.00-11.30	M S	GYM	114	
5	11.00-12.35	MT THF	GYM	206	
	MEETS FIRST SIX WEEKS				
6	11.00-12.30	W S	GYM	114	WHYMAN
7	12.00-01.35	MT THF	GYM	206	
	MEETS FIRST SIX WEEKS				
8	01.00-02.35	MT THF	GYM	206	KORANDO
	MEETS FIRST SIX WEEKS				
9	02.00-03.35	MT THF	GYM	206	
	MEETS FIRST SIX WEEKS				
114I	ACTIVITY-VOLLEYBALL			01.0 CR	
1	08.00	T TH S	GYM	207	
2	04.00	M W F	GYM	207	
3	07.00-08.30 PM	T TH	GYM	208	
114M	ACTIVITY-FENCING			01.0 CR	
1	01.00-02.30	T TH	GYM	114	COTTON
2	02.00	M W F	GYM	114	COTTON
3	02.00-03.30	T TH	GYM	114	KUHAJDA
4	03.00-04.30	T TH	GYM	114	KUHAJDA
5	06.00-07.30 PM	M W	GYM	114	MOORE
114P	ACTIVITY-GYM + TUMB			01.0 CR	
1	03.00	M W F	GYM	207	
2	04.00	M W F	GYM	207	KORANDO
201	HEALTHFUL LIVING			03.0 CR	
1	08.00	M W F	BAILEY	130	
2	08.00	M W F	ARENA	119	
3	08.00	M W F	ARENA	121	
4	08.00	T	ARENA	119	
	08.00	THF	ARENA	123	
5	09.00	M W F	H EC	102	
6	09.00	M W F	H EC	118	
7	09.00	MTW	TECH A	222	
8	09.00	MTW	TECH A	308	
9	09.00	M W F	TECH A	310	
10	09.00	M W	H EC	201	
	09.00	T	TECH A	210	
11	09.00	M W	COMM	118	
	09.00	TH	TECH A	222	
12	09.00	M W F	COMM	120	
13	10.00	M W F	ARENA	121	
14	10.00	M W F	ARENA	123	
15	11.00	M WTH	H EC	102	
16	11.00	M W F	TECH A	222	
17	11.00	MTW	TECH A	308	
18	11.00	M W F	TECH A	310	
19	11.00	M W	H EC	201	
	11.00	T	CL	109	
20	11.00	M W	COMM	118	
	11.00	T	AG	154	
21	11.00	M W F	COMM	120	
22	12.00	M W F	WHAM	308	
23	12.00	TWTH	BROWN	130	
24	01.00	M W	H EC	102	
	01.00	T	TECH A	222	
25	01.00	MTW	H EC	201	
26	01.00	M W F	TECH A	308	
27	01.00	M W F	ARENA	119	
28	01.00	M	ARENA	123	
	01.00	T TH	ARENA	121	
29	01.00	T TH	WHAM	105	
	03.00	W	ARENA	123	

30	01.00		T TH	WHAM	105
	03.00		F	ARENA	123
31	01.00		T TH	WHAM	105
	12.00		F	ARENA	125
32	01.00		T TH	WHAM	105
	01.00		F	ARENA	125
33	01.00		T TH	WHAM	105
	11.00		T	ARENA	125
34	01.00		T TH	WHAM	105
	03.00	M		TECH A	308
35	01.00		T TH	WHAM	105
	04.00	M		TECH A	310
36	01.00		T TH	WHAM	105
	11.00		F	TECH A	322
37	01.00		T TH	WHAM	105
	12.00	M		PULL	39
38	01.00		T TH	WHAM	105
	12.00		W	PULL	39
39	02.00	M W F		ARENA	121
40	02.00		T TH	WHAM	105
	11.00		TH	ARENA	125
41	02.00		T TH	WHAM	105
	11.00		W	PULL	39
42	02.00		T TH	WHAM	105
	02.00		F	AG	154
43	02.00		T TH	WHAM	105
	01.00		F	AG	220
44	02.00		T TH	WHAM	105
	01.00		F	BAILEY	130
45	02.00		T TH	WHAM	105
	02.00		F	BAILEY	130
46	02.00		T TH	WHAM	105
	08.00		W	PULL	43
47	02.00		T TH	WHAM	105
	10.00		W	H EC	122
48	02.00		T TH	WHAM	105
	10.00		W	H EC	201
49	02.00		T TH	WHAM	105
	11.00		W	WHAM	319
50	06.00-07.25	PM M W		PHY SC	116
51	07.00	PM M W		LAWSON	171
	08.00		TH	ARENA	119
52	07.00	PM M W		LAWSON	171
	11.00		T	ARENA	119
53	07.00	PM M W		LAWSON	171
	12.00		T	ARENA	119
54	07.00	PM M W		LAWSON	171
	01.00		TH	ARENA	119
55	07.00	PM M W		LAWSON	171
	08.00		T	ARENA	121
56	07.00	PM M W		LAWSON	171
	08.00		TH	ARENA	121
57	07.00	PM M W		LAWSON	171
	03.00		M	ARENA	123
58	07.00	PM M W		LAWSON	171
	03.00		T	ARENA	123
59	07.00	PM M W		LAWSON	171
	03.00		TH	ARENA	123
60	07.00	PM M W		LAWSON	171
	06.00	PM T		ARENA	123

## SCHEDULE OF DEPARTMENTAL COURSES

COURSE & SECTION NO.	TITLE & HOURS	DAYS	BLDG. & RM.	INSTRUCTOR
<b>Accounting (ACCT)</b>				
250	ACCT FUNDAMENTALS		04.0 CR	
1	04.00	MT THF	LAWSON 231	BURNS
251A	FINANCIAL ACCT		04.0 CR	
	PREREQ	SOPHOMORE STANDING		



# SCHEDULE OF DEPARTMENTAL COURSES

1	11.00	T F	LAWSON	141	
	08.00	M	CL	18	
	08.00	TH	CL	12	
2	11.00	T F	LAWSON	141	
	09.00	W S	CL	18	
3	11.00	T F	LAWSON	141	
	10.00	M W	CL	12	
4	11.00	T F	LAWSON	141	
	10.00	W S	CL	18	
5	11.00	T F	LAWSON	141	
	02.00	M	CL	18	
	02.00	W	CL	12	
6	11.00	T F	LAWSON	141	
	12.00	M TH	LAWSON	221	
7	11.00	T F	LAWSON	141	
	01.00	M W	LAWSON	231	
8	02.00	T F	LAWSON	161	
	11.00	M	CL	12	
	11.00	W	CL	18	
9	02.00	T F	LAWSON	151	
	12.00	M	CL	18	
	12.00	TH	CL	12	
10	02.00	T F	LAWSON	151	
	01.00	M	CL	12	
	01.00	W	CL	18	
11	02.00	T F	LAWSON	161	
	03.00	M W	LAWSON	131	
12	02.00	T F	LAWSON	151	
	04.00	M W	LAWSON	221	
13	05.45-07.25	M W	CL	12	
251B	FINANCIAL ACCT			04.0	CR
	PREREQ ACCT 251A				
1	09.00	T	LAWSON	171	
	02.00	WTHF	CL	18	
2	09.00	T	LAWSON	171	
	03.00	WTHF	CL	18	
3	09.00	T	LAWSON	171	
	08.00	WTHF	CL	18	
4	09.00	T	LAWSON	171	
	10.00	THFS	CL	12	
5	09.00	T	LAWSON	171	
	09.00	THF	CL	18	
	09.00	S	CL	12	
261	MANAGEMENT ACCT			04.0	CR
	PREREQ ACCT 251B AND MATH 111A				
1	11.00	TH	LAWSON	171	SCHMIDLEIN
	08.00	MTW	CL	12	
2	11.00	TH	LAWSON	171	SCHMIDLEIN
	09.00	MT	CL	18	
	09.00	W	CL	12	
3	11.00	TH	LAWSON	171	SCHMIDLEIN
	01.00	TW F	CL	12	
4	11.00	TH	LAWSON	171	SCHMIDLEIN
	03.00	MT	CL	18	
	03.00	W	CL	12	
5	11.00	TH	LAWSON	171	SCHMIDLEIN
	12.00	MT	CL	12	
	12.00	W	CL	18	
6	05.45-07.25	T TH	CL	12	SCHMIDLEIN
315	EDP IN BUSINESS			04.0	CR
	PREREQ ACCT 261				
1	01.00	TH	LAWSON	141	
	08.00	MTW	PARK	204	
2	01.00	TH	LAWSON	141	
	01.00	MTW	H EC	206	
3	01.00	TH	LAWSON	141	
	04.00	MTW	PHY SC	118	
331	TAX ACCOUNTING			04.0	CR
	PREREQ ACCT 261				
1	03.00	MT THF	CL	12	
341	COST ACCOUNTING			04.0	CR
	PREREQ ACCT 261				
1	10.00	MT THF	CL	18	

2	04.00	MT THF	CL	18	
351A	INTERMEDIATE ACCT			04.0	CR
	PREREQ ACCT 261				
1	09.00	MT THF	CL	12	
2	01.00	MT THF	CL	18	
351B	INTERMEDIATE ACCT			04.0	CR
	PREREQ ACCT 351A				
1	11.00	MT THF	CL	18	
410	ACCOUNTING CONCEPTS			04.0	CR
	PREREQ MBA STUDENTS ONLY, ACCT 250 OR 251C				
1	01.00	MT THF	CL	25	
456	AUDITING			04.0	CR
	PREREQ ACCT 331, 341, AND 351A,8				
1	11.00	TWTHF	CL	12	
475	BUDGETING + SYSTEMS			04.0	CR
	PREREQ ACCT 261, FIN 320				
1	04.00	MTWTH	CL	12	

### Aerospace Studies (A S)

100A	CORPS TRAINING			00.0	CR	
1	10.00	T	PULL	42		STALEY
101	EVOL OF CONFLICT			01.0	CR	
1	09.00	T	WHLR	113		STALEY
2	09.00	TH	WHLR	113		MURPHY
3	11.00	T	WHLR	113		STALEY
4	11.00	TH	WHLR	113		MURPHY
5	02.00	T	WHLR	113		STALEY
6	02.00	TH	WHLR	113		MURPHY
200A	CORPS TRAINING			00.0	CR	
1	10.00	T	PULL	42		STALEY
201	US MILITARY FORCES			01.0	CR	
	PREREQ AS 101, 102, 103					
1	09.00	W	WHLR	113		STALEY
2	11.00	W	WHLR	113		STALEY
3	01.00	W	WHLR	113		STALEY
300	CORPS TRAINING			00.0	CR	
1	10.00	T	PULL	42		
301	AEROSPACE STUDIES			03.0	CR	
	PREREQ SATISFACTORY COMPLETION OF GMCOR 6 WK FIELD TRNG					
1	08.00	M WTH	WHLR	107		
2	10.00	M WTH	WHLR	107		
3	02.00	M WTH	WHLR	107		
340	CORPS TRAINING			00.0	CR	
1	10.00	T	PULL	42		
351	MIL PROFESSIONALISM			03.0	CR	
1	09.00	M WTH	WHLR	107		COX
2	01.00	M WTH	WHLR	107		COX

### Agricultural Industries (AG I)

204	INTRO AG ECONOMICS			04.0	CR	
1	02.00	MTW	AG	166		HERR
	02.00	TH	AG	225		
2	02.00	MTW	AG	166		HERR
	02.00	F	AG	225		
3	02.00	MTW	AG	166		HERR
	03.00	TH	AG	225		
306A	SOIL + WATER CONS			03.0	CR	
	PREREQ ONE COURSE IN SOILS					
1	11.00	M W F	AG	166		JONES
	CROSS-LISTED WITH PL I 306A					
306B	SOIL + WATER CONS			02.0	CR	
	PREREQ AG I 306A CR CCCURRENT ENROLLMENT IN 306A					
1	11.00-12.50	T TH	AG	195		STITT
2	03.00-04.50	T TH	AG	195		STITT
	CROSS-LISTED WITH PL I 306B					
309	AGRICULTURAL EDUC			05.0	CR	
	PREREQ GUID 305, S ED 310, 48 HRS IN AGRICULTURE					
1	09.00-11.50	MTWTHF	AG	155		WOOD
312A	VO AG SUMMER PRACT			02.0	CR	
	PREREQ CONCURRENT ENRCLLMENT IN AG I 309					
1	TO BE ARRANGED					WOOD
312B	VO-AG STUDENT TEACH			10.0	CR	
	PREREQ AG I 312A					

1	TO BE ARRANGED					WOOD
350	FARM MANAGEMENT			05.0	CR	
	PREREQ	AG I 204	OR GSB 211A			
1	10.00	MTW	F AG	225		
	11.00-12.50		F AG	225		
2	10.00	MTW	F AG	225		
	11.00-12.50	T	AG	225		
352	AGRICULTURAL PRICES			03.0	CR	
	PREREQ	AG I 354				
1	01.00	TW	F AG	225		HAAG
354	AGRIC MARKETING			03.0	CR	
	PREREQ	GSB 211A				
1	01.00	MT	TH AG	214		SOLVERSON
375	FARM SHOP			03.0	CR	
	PREREQ	GSD 107A	CR EQUIVALENT			
1	08.00-09.50	M W	F 0831	101		PATERSON
2	03.00-04.50	M W	F 0831	101		PATERSON
381	AGRI SEMINAR		01.0 TO 02.0	CR		
	PREREQ	SENIORS ONLY				
1	04.00	T	AG	225		GOODMAN
	CROSS-LISTED WITH PL I 381					
390	SPEC STUD AG I		01.0 TO 06.0	CR		
	PREREQ	CONSENT OF DEPT CHAIRMAN				
1	TO BE ARRANGED					
411	AGRIC EXTENSION			03.0	CR	
	PREREQ	JUNIOR STANDING				
1	12.00	M WTH	AG	168		BUILA
412	PRIN AG MECHANIZAT			04.0	CR	
1	09.00	T	TH AG	225		WOOD + DOERR
	08.00-09.50	M W	AG	102A		
2	09.00	T	TH AG	225		WOOD + DOERR
	03.00-04.50	M W	AG	102A		
456A	AG MKTG - COOPS			03.0	CR	
	PREREQ	AG I 354, CR CCNSENT OF INSTRUCTOR				
1	04.00	M WTH	AG	225		WILLS
456B	AG MKTG - LIVESTOCK			02.0	CR	
	PREREQ	AG I 354, CR CCNSENT OF INSTRUCTOR				
1	03.00	W	F AG	225		HAAG
478	ADV FARM MACHINERY			04.0	CR	
	PREREQ	AG I 350 AND 373 OR CCNSENT OF INSTR				
1	08.00-11.50	S	AG	155		PATERSON
485	PRIN-PHIL VO TEC ED			03.0	CR	
	PREREQ	STUDENT TEACHING OR CCNSENT OF DEPARTMENT				
1	09.00-11.30	S	TECH A 208	RAMP		
	CROSS-LISTED WITH HEED, SEC, TIED					
520	READINGS		01.0 TO 06.0	CR		
1	TO BE ARRANGED					
575	RESEARCH		01.0 TO 06.0	CR		
1	TO BE ARRANGED					
599	THESIS		01.0 TO 09.0	CR		
1	TO BE ARRANGED					

#### Animal Industries (ANI)

121	ANIMAL SCIENCE			05.0	CR	
	PREREQ	NONE				
1	11.00	MTW	F AG	102		OLSON
	10.00-11.50	TH	AG	102A		
2	11.00	MTW	F AG	102		OLSON
	01.00-02.50	TH	AG	102A		
311C	EVAL + SEL FARM ANI			02.0	CR	
	PREREQ	AN I 311B				
1	08.00-11.50	S	AG	120		MILLER, OLSON, GOODMAN AN
315	FEEDS + FEEDING			04.0	CR	
	PREREQ	AN I 121				
1	09.00	M W	F AG	214		HINNERS
	09.00-10.50	T	AG	114		
2	09.00	M W	F AG	214		HINNERS
	01.00-02.50	T	AG	120		
3	09.00	M W	F AG	214		HINNERS
	09.00-10.50	TH	AG	114		
318	MEAT, ANIM, CARC EVAL			03.0	CR	
	PREREQ	AN I 121 AND CCNCENTRATION IN AN I				



1	11.00-12.50	M	AG	132	MILLER
	04.00-06.50	W	AG	132	
327	POULTRY MANAGEMENT			04.0 CR	
	PREREQ AN I 125				
1	01.00	MT F	AG	132	GOODMAN
	01.00-02.50	W	AG	132	
381	AGRICULTURAL SEM		01.0 TO 02.0	CR	
	PREREQ SENIOR STANDING				
1	04.00	T	AG	225	GOODMAN
	CROSS-LISTED WITH FCR, AG I, PL I 381				
390	SPEC STUD AN I		01.0 TO 06.0	CR	
	PREREQ JR OR SR STANDING AND CONSENT OF DEPT CHAIRMAN				
1	TO BE ARRANGED				
415A	ANIMAL NUTRITION			04.0 CR	
	PREREQ AN I 315 AND ORGANIC CHEM OR EQUIV				
1	03.00	MT TH	AG	168	HINNERS
	02.00-03.50	W	AG	120	
2	03.00	MT TH	AG	168	HINNERS
	04.00-05.50	W	AG	120	
3	03.00	MT TH	AG	168	HINNERS
	03.00-04.50	F	AG	120	
456B	AG MKTG - LIVESTOCK			02.0 CR	
	PREREQ GSB 211A CR CONSENT OF INSTR				
1	01.00	M TH	AG	225	HAAG
485	BEEF PRODUCTION			04.0 CR	
	PREREQ AN I 315, 332, 431				
1	02.00	MT F	AG	116	KAMMLADE
	01.00-02.50	TH	AG	114	
505A	RES METH IN AG SCI			04.0 CR	
	PREREQ CONSENT CF INSTR				
1	09.00	MTW	AG	120	BURNSIDE
	09.00-10.50	TH	AG	120	
520	READINGS IN AN IND		01.0 TO 06.0	CR	
1	TO BE ARRANGED				
575	INDIVIDUAL RESEARCH		01.0 TO 06.0	CR	
1	TO BE ARRANGED				
581	SEMINAR		01.0 TO 06.0	CR	
1	04.00	T	AG	114	CLSON
599	THESIS		01.0 TO 09.0	CR	
1	TO BE ARRANGED				

### Anthropology (ANTH)

275A	INDIV STUDY-AFRICA			02.0 CR	
	PREREQ CONSENT CF DEPARTMENT				
1	TO BE ARRANGED				RILEY
275B	INDIV STUDY-ASIA			02.0 CR	
	PREREQ CONSENT CF DEPT				
1	00.00-00.00				RILEY
275C	INDIV STUDY-L AMER			02.0 CR	
	PREREQ CONSENT CF DEPT				
1	TO BE ARRANGED				RILEY
275D	INDIV STUDY-GENERAL		02.0 TO 18.0	CR	
	PREREQ CONSENT CF DEPT				
1	TO BE ARRANGED				RILEY
300	PHYSICAL ANTH			03.0 CR	
	PREREQ GSB 102A CR ANTH 275D				
1	03.00	M W F	H EC	106	MULLER
305A	PEOPLE-CULT WORLD I			03.0 CR	
	PREREQ GSB 102A CR ANTH 275D				
1	01.00	M W F	H EC	106	BELMONT
306A	PEOPLE-CULT WRLD II			03.0 CR	
	PREREQ GSB 102A CR ANTH 275D				
1	09.00	M W F	H EC	106	ALTSCHULER
400	MAN AND CULTURE			03.0 CR	
	PREREQ GSB 102A-4 OR ANTH 275D-4				
1	02.00	M W F	H EC	106	WALKER
404	PRIM ART AND TECH			04.0 CR	
	PREREQ GSB 102A CR ANTH 275D				
1	10.00-11.50	T TH	H EC	106	DARK
405	SOCIAL ANTHROPOLOGY			03.0 CR	
	PREREQ GSB 102A-4 OR ANTH 275D-4				
1	02.00-03.50	T	H EC	106	
	02.00	TH	H EC	106	

413	INTRO TO GEN LING	04.0	CR		
	PREREQ GSB 102A CR ANTH 275D				
1	10.00	M W F	H EC	106	MARING J
2	12.00	M W F	H EC	106	
415	LOGIC OF SOCIAL SCI	03.0	CR		
	PREREQ GSB 102A CR ANTH 275D				
1	11.00	M W F	H EC	208	MCCLURE
	CROSS-LISTED WITH PHIL415				
443	COMPARATIVE LAW	03.0	CR		
	PREREQ GSB 102B-4 OR ANTH 275D-4				
1	11.00	M W F	H EC	106	ALTSCHULER
444	COMPARATIVE RELIG	03.0	CR		
	PREREQ GSB 102A-4 OR ANTH 275D-4				
1	04.00	M W F	H EC	106	MARING E.
483	INDIV STUDY IN ANTH	01.0 TO 18.0	CR		
	PREREQ GSB 102A CR ANTH 275D-4				
1	TO BE ARRANGED				
510	SEM-NEW WORLD ARCH	03.0	CR		
1	07.30-10.00 PM	TH	H EC	106	MULLER
581	SEM-ANTHROPOLOGY	03.0 TO 09.0	CR		
	PREREQ CONSENT CF DEPT				
1	03.00-05.30	TH	H EC	106	LANGE + RILEY
585	READINGS IN ANTH	01.0 TO 27.0	CR		
1	TO BE ARRANGED				
596A	FIELD METHODS ARCH	03.0	CR		
1	07.30-10.00 PM	W	H EC	106	RACKERBY
597	FIELDWORK IN ANTH	01.0 TO 27.0	CR		
1	TO BE ARRANGED				
599	THESIS	01.0 TO 09.0	CR		
1	TO BE ARRANGED				
600	DISSERTATION	01.0 TO 48.0	CR		
1	TO BE ARRANGED				

### Applied Science (AP S)

300	UNIV PHYSICS IV	05.0	CR		
	PREREQ PHYS 111, 206, CR 211				
1	03.00	MTW F	PARK	309	
	04.00	T	PARK	301	
	04.00-05.50	W	PHY SC	404	
2	03.00	MTW F	PARK	309	
	04.00	T	PARK	301	
	03.00-04.50	TH	PHY SC	404	
323	INTRO COMPUTER SCI	03.0	CR		
	PREREQ ENGR 222 CR MATH 225 OR MGT 455 PLUS MATH 150A				
1	02.00	M W F	TECH A	208	
401A	X-RAY CRYSTALLOGPHY	04.0	CR		
1	04.00	M W	TECH B	143	
	03.00-04.50	F	TECH B	143	
421	PROGRAM LANGUAGES	03.0	CR		
	PREREQ ENGR 222 MATH 225 OR CONSENT OF INSTRUCTOR				
1	04.00	M W F	TECH A	222	
503A	PROP-CRYST MATERIAL	04.0	CR		
1	TO BE ARRANGED				
504A	X-RAY DIFFRACTION	04.0	CR		
	PREREQ GRAD STANDING				
1	11.00	M W	TECH B	143	
	10.00-11.50	TH	TECH B	143	
570	SPECIAL INVESTIGAT	02.0 TO 06.0	CR		
1	TO BE ARRANGED				
580	SEMINAR	01.0 TO 09.0	CR		
1	TO BE ARRANGED				
599	THESIS	01.0 TO 09.0	CR		
1	TO BE ARRANGED				

### Art (ART)

100A	SCULPTURE-CRAFTS	04.0	CR		
1	08.00-09.50	M W F	ALLYN	112	ADDINGTON
2	10.00-11.50	M W F	ALLYN	112	ADDINGTON
100B	CRAFTS-SCULPTURE	04.0	CR		
1	12.00-01.50	M W F	ALLYN	112	BOYSEN
2	02.00-03.50	M W F	ALLYN	112	BOYSEN
100C	PAINTING-GRAPHICS	04.0	CR		
1	04.00-05.50	M W F	ALLYN	112	LINK

2	06.00-07.50 PM	M WTH	ALLYN	112	LINK
100D	GRAPHICS-DRAWING		04.0 CR		
1	12.00-01.50	M W F	ALLYN	106	GREENFIELD
2	02.00-03.50	M W F	ALLYN	106	WILDER
100E	DRAWING-PAINTING		04.0 CR		
1	08.00-09.50	M W F	ALLYN	106	LITTLEFIELD
2	10.00-11.50	M W F	ALLYN	106	WILDER
200A	SCULPTURE		04.0 CR		
	PREREQ ART 100(ABCDE)				
1	08.00-09.50	M W F	0549	101	WALSH
2	10.00-11.50	M W F	0549	101	WALSH
200B	DRAWING		04.0 CR		
	PREREQ ART 100(ABCDE)				
1	08.00-10.50	T TH	ALLYN	202	PAULSON
2	08.00-09.50	M W F	ALLYN	202	WILDER
200C	PAINTING		04.0 CR		
	PREREQ ART 100(ABCDE)				
1	02.00-03.50	M W F	ALLYN	202	LINK
2	02.00-04.50	T TH	ALLYN	202	LITTLEFIELD
225A	INTRO TO ART HIST		03.0 CR		
1	12.00	M W F	LAWSON	171	COVINTREE
300	ART EDUCATION		04.0 CR		
1	08.00	T TH	LAWSON	161	WOOD
	11.00-12.50	T TH	PULL I	105	
2	08.00	T TH	LAWSON	161	WOOD
	02.00-03.50	T TH	PULL I	105	
3	08.00	T TH	LAWSON	161	WOOD
	03.00-04.50	M W	PULL I	105	
4	08.00	T TH	LAWSON	161	WOOD
	08.00-09.50	M W	PULL I	105	
5	08.00	T TH	LAWSON	161	LAWSON
	01.00-02.50	M W	PULL I	105	
302	POTTERY		04.0 TO 12.0 CR		
1	08.00-10.50	T TH	ALLYN	5	VERGETTE
2	08.00-09.50	M W F	ALLYN	5	BOYSEN
3	02.00-04.50	T TH	ALLYN	5	VERGETTE
306	MAT-TECH ART ED /P/		03.0 CR		
1	10.00-11.50	M W	PULL I	105	GREENFIELD
307	THEORY+PHIL ART ED		03.0 CR		
1	09.00	M W F	PULL I	105	ABRAHAMSON
308	CUR + ADM - ART ED		03.0 CR		
1	02.00	M W F	PULL I	105	LAWSON
320	ADVANCED PAINTING		04.0 TO 12.0 CR		
	PREREQ ART 100, ART 200				
1	10.00-11.50	M W F	ALLYN	202	ONKEN
2	06.00-08.50 PM	M W	ALLYN	202	ONKEN
332	JEWEL + SILVERSMITH		04.0 TO 12.0 CR		
1	08.00-09.50	M W F	ALLYN	11	KINGTON
2	12.00-01.50	M W F	ALLYN	11	KINGTON
3	02.00-03.50	M W F	ALLYN	11	KINGTON
341	DRAWING		04.0 TO 12.0 CR		
1	12.00-01.50	M W F	ALLYN	202	LITTLEFIELD
2	04.00-05.50	M W F	ALLYN	202	ONKEN
358	PRINTS		04.0 TO 12.0 CR		
1	04.00-05.50	M W F	ALLYN	210	KOLDEN
365	ART EDUC SECON SCH		04.0 CR		
1	04.00-05.50	M W F	PULL I	105	GREENFIELD
385	WEAVING		04.0 TO 12.0 CR		
1	02.00-04.50	T TH	0702	101	GINSBERG
2	06.00-08.50 PM	T TH	0702	101	GINSBERG
393	SCULPTURE		04.0 TO 12.0 CR		
	PREREQ ART 200-12 HRS				
1	08.00-10.50	T TH	0549	101	SULLIVAN
401	RESEARCH PAINTING		02.0 TO 12.0 CR		
1	08.00-09.50	M W F	0549	101	BERNSTEIN
405	STUDIO IN SCULPTURE		02.0 TO 12.0 CR		
	PREREQ CONSENT OF INSTRUCTOR				
1	02.00-04.50	T TH	0549	101	SULLIVAN
408	ART ED ELEM TCH II		04.0 CR		
	PREREQ ART 300				
1	03.00-05.50	T TH	PULL I	105	LAWSON
410	RESEARCH IN PRINTS		02.0 TO 12.0 CR		
1	10.00-11.50	M W F	ALLYN	210	KOLDEN



420	RESEARCH POTTERY	02.0 TO 12.0 CR		
1	11.00-01.50	T TH	ALLYN	5 VERGETTE
430	RES METAL CONSTR	02.0 TO 12.0 CR		
1	10.00-11.50	M W F	ALLYN	11 KINGTON
440	RESEARCH IN WEAVING	02.0 TO 12.0 CR		
1	11.00-01.50	T TH	0702	101 GINSBERG
441	STUDIO IN DRAWING	02.0 TO 12.0 CR		
	PREREQ ART 341-12 HRS			
1	11.00-01.50	T TH	ALLYN	202 PAULSON
460	RESEARCH ART EDUC	02.0 TO 12.0 CR		
1	12.00	M W F	PULL I	105 ABRAHAMSON
482A	ART HIST SEM-ANC	03.0 CR		
1	TO BE ARRANGED			KURTZ
483A	RES ART HIST-ANC	03.0 CR		
1	TO BE ARRANGED			KURTZ
501	SEMINAR PAINTING	02.0 TO 12.0 CR		
1	08.00-09.50	M W F	0549	101 BERNSTEIN
504	RESEARCH-SCULPTURE	02.0 TO 12.0 CR		
	PREREQ CONSENT CF INSTRUCTOR			
1	02.00-04.50	T TH	0549	101 SULLIVAN
511	SEMINAR IN PRINTS	02.0 TO 12.0 CR		
	PREREQ CONSENT CF INSTRUCTOR			
1	10.00-11.50	M W F	ALLYN	210 KOLDEN
520	SEMINAR POTTERY	02.0 TO 12.0 CR		
1	11.00-01.50	T TH	ALLYN	5 VERGETTE
530	SEMINAR METAL CONST	02.0 TO 12.0 CR		
1	10.00-11.50	M W F	ALLYN	11 KINGTON
540	SEMINAR IN WEAVING	02.0 TO 12.0 CR		
1	11.00-01.50	T TH	0702	101 GINSBERG
541	RESEARCH IN DRAWING	02.0 TO 12.0 CR		
	PREREQ 12 HRS OF ART 300			
1	11.00-01.50	T TH	ALLYN	202 PAULSON
566	RESEARCH ART EDUC	02.0 TO 12.0 CR		
1	TO BE ARRANGED			ABRAHAMSON
571	READ ART HISTORY	02.0 TO 05.0 CR		
	PREREQ GRAD STANDING + CONSENT OF INSTRUCTOR			
1	TO BE ARRANGED			NAPPER
573	PROB-ART HIST	03.0 TO 12.0 CR		
1	TO BE ARRANGED			KURTZ
599	THESIS	05.0 TO 09.0 CR		
1	TO BE ARRANGED			FINK

### Biology (BIOL)

305	GENETICS-CLAS + MOL	04.0 CR		
	PREREQ GSA 201B CR GSA 210B OR ADVANCED STANDING IN BIOLOGY			
1	09.00	M WTHF	MAIN	309 MYERS
306	DEVELOPMENTAL BIOL	04.0 CR		
	PREREQ GSA 201B CR GSA 210B OR ADVANCED STANDING IN BIOLOGY			
1	03.00	M WTHF	LS I	323

### Botany (BOT)

300	MORPH NON-VAS PLANT	04.0 CR		
	PREREQ GSA 201B			
1	09.00	M W F	LS I	323 TINDALL
	08.00-09.50	T	LS I	307
2	09.00	M W F	LS I	323 TINDALL
	08.00-09.50	TH	LS I	307
301	MORPH VAS PLANTS	04.0 CR		
	PREREQ GSA 201B			
1	01.00	M TH	LS I	323 MATTEN
	01.00-02.50	T F	LS I	307
2	01.00	M TH	LS I	323 MATTEN
	03.00-04.50	T F	LS I	307
320	PLANT PHYSIOLOGY	05.0 CR		
	PREREQ GSA 201B, CHEM 350 OR MINOR IN CHEM			
1	08.00	M W F	LS I	323 SCHMID
	08.00-09.50	T TH	LS I	311
2	08.00	M W F	LS I	323 SCHMID
	10.00-11.50	T TH	LS I	311
3	08.00	M W F	LS I	323 SCHMID
	01.00-02.50	T TH	LS I	311
390	READINGS - BOTANY	02.0 TO 04.0 CR		
	PREREQ BOT MAJOR AND CONSENT OF INSTR			

1	TO BE ARRANGED					
391	SPEC PROB IN BOTANY	02.0 TO 05.0 CR				
	PREREQ BOT MAJOR AND CONSENT OF DEPT					
1	TO BE ARRANGED					
392	HONORS IN BOTANY	03.0 TO 21.0 CR				
	PREREQ CONSENT CF DEPARTMENT					
1	TO BE ARRANGED					
400	PLANT ANATOMY	05.0 CR				
	PREREQ BOT 300 AND 301					
1	08.00	T TH	LS I	323	MATTEN	
	08.00-09.50	M W F	LS I	315		
405	MYCOLOGY	05.0 CR				
	PREREQ BOT 300					
1	10.00	M W F	LS I	323	GRAY	
	10.00-11.50	T TH	LS I	307		
411	BRYO AND PTERIDO	04.0 CR				
	PREREQ BOT 301					
1	10.00	M W	LS I	315	KAEISER	
	10.00-11.50	T TH	LS I	315		
425A	ADV PLANT PHYSIOL	05.0 CR				
	PREREQ BOT 320, CHEM 350 OR CHEM MINOR					
1	11.00	M W F	LS I	323	ASHBY	
	01.00-02.50	M W	LS I	311		
440	GRASSLAND ECOLOGY	04.0 CR				
	PREREQ GSA 340 CR CONSENT OF INSTR					
1	09.00	T TH	LS I	323	VOIGT	
	TO BE ARRANGED					
	LAB WILL MEET SAT MCRNING IN LSI 307					
2	09.00	T TH	LS I	323	VOIGT	
	TO BE ARRANGED					
	LAB WILL MEET SAT MCRNING IN LSI 308					
449	TAXONOMIC ELEMENTS	03.0 CR				
1	03.00	T	LS I	323	UGENT	
	01.00-04.50	TH	COMM	9		
470	TEACH H S BIOL /P/	04.0 CR				
	PREREQ BOT OR ZCC MAJCRS ONLY					
1	01.00-02.50	M WTH	LS I	307	MARBERRY	
2	03.00-04.50	M WTH	LS I	307		
503A	ADV ANGIOSPERM TAX	05.0 CR				
	PREREQ CONSENT CF INSTR					
1	01.00-02.50	M W F	COMM	9	MCHLENBROCK	
	TO BE ARRANGED					
525	CYTOLOGY	05.0 CR				
	PREREQ BOT 315 CR ZOO 401					
1	03.00	M W F	LS I	315	CLAH	
	03.00-04.50	T TH	LS I	315		
535	AQUATIC ENERGETICS	03.0 CR				
	PREREQ CONSENT CF INSTR					
1	01.00-02.50	M TH	LS I	315	VERDUIN	
	TO BE ARRANGED					
570	READINGS - BOTANY	02.0 TO 05.0 CR				
1	TO BE ARRANGED					
580	SEMINAR	01.0 TO 04.0 CR				
	PREREQ UNDERGRAD MAJCR OR MINOR IN BOT OR DEPT CONSENT					
1	TO BE ARRANGED				PAPPELIS	
2	TO BE ARRANGED				MCHLENBROCK	
3	04.00	W	LAWSON	131	UGENT	
590	INTRO TO RESEARCH	02.0 TO 04.0 CR				
1	TO BE ARRANGED				MCHLENBROCK	
2	TO BE ARRANGED					
591	RESEARCH	03.0 TO 09.0 CR				
	PREREQ CONSENT CF DEPT					
1	TO BE ARRANGED					
599	THESIS	03.0 TO 09.0 CR				
1	TO BE ARRANGED				GRAY	
600	DISSERTATION	01.0 TO 36.0 CR				
1	TO BE ARRANGED					

#### Business Administration (B A)

500	RES METH + COMMUNIC	04.0 CR			
1	08.00-09.50	T	WHAM	328	FOHR
	08.00-09.50	F	WHAM	203	FOHR
501	QUANT DECISIONS	04.0 CR			

1	01.00-02.50	T	COMM	122	LAUGHUAN
	01.00-02.50	TH	WOODY	1014	
510	MGR ACCT + CONTROL			04.0	CR
1	10.00-11.50	M TH	CL	25	SWICK
511	ACCOUNTING THEORY			04.0	CR
	PREREQ ENROLLMENT IN MBA		PROGRAM		OR CONSENT OF INSTRUCTOR
1	08.00-09.50	M W	AG	218	SCHMIDLEIN
526	MANAGERIAL ECON			04.0	CR
1	05.45-07.25	T TH	H EC	206	BRUCKER
	CROSS-LISTED WITH ECCN 526				
531	FINANCIAL POLICIES			04.0	CR
	PREREQ ENROLLMENT IN MBA		PROGRAM		OR CONSENT OF INSTRUCTOR
1	05.45-07.25	M W	CL	25	
540	MGR + ORG BEHAVIOR			04.0	CR
1	01.00-02.50	M W	CL	24	HUNT
542	HIST + THEORY MGT			04.0	CR
	PREREQ ENROLLMENT IN MBA		PROGRAM		OR CONSENT OF INSTRUCTOR
1	03.00-04.50	W F	WHAM	212	TAYLER
559	SEMINAR IN MKTG			04.0	CR
	PREREQ ENROLLMENT IN MBA		PROGRAM		OR CONSENT OF DEPARTMENT
1	03.00-04.50	M	WHAM	212	DOMMERMUTH
	03.00-04.50	W	WHAM	301A	
590	INDEPENDENT STUDY			04.0	CR
	PREREQ ENROLLMENT IN MBA		PROGRAM		OR CONSENT OF INSTRUCTOR
1	TO BE ARRANGED				PATRICK
2	07.35-09.25 PM	T TH	CL	25	BECKER
	CROSS LISTED WITH ECCN500				
599	THESIS			04.0 TO 08.0	CR
	PREREQ ENROLLMENT IN MBA		PROGRAM		OR CONSENT OF INSTRUCTOR
1	TO BE ARRANGED				PATRICK

### Chemistry (CHEM)

115	INTRO GENERAL CHEM			05.0	CR
1	12.00	MT TH	PARK	124	
	01.00	T	PHY SC	116	
	12.00-01.50	W F	PHY SC	102	
2	12.00	MT TH	PARK	124	
	01.00	T	PHY SC	116	
	12.00-01.50	W F	PHY SC	104	
3	12.00	MT TH	PARK	124	
	01.00	TH	PHY SC	116	
	12.00-01.50	W F	PHY SC	106	
4	12.00	MT TH	PARK	124	
	01.00	TH	PHY SC	116	
	12.00-01.50	W F	PHY SC	107	
5	12.00	MT TH	PARK	124	
	01.00	T	PHY SC	116	
	12.00-01.50	W F	PARK	108	
121A	GEN CHEM-QUAL ANAL			05.0	CR
	PREREQ 115 OR 1		YEAR HIGH SCHOOL		CHEMISTRY
1	08.00	T	PHY SC	116	
	09.00	MT TH	PARK	124	
	08.00-09.50	W F	PHY SC	102	
2	08.00	TH	PHY SC	116	
	09.00	MT TH	PARK	124	
	08.00-09.50	W F	PHY SC	104	
3	08.00	T	PHY SC	116	
	09.00	MT TH	PARK	124	
	08.00-09.50	W F	PHY SC	106	
4	08.00	TH	PHY SC	116	
	09.00	MT TH	PARK	124	
	08.00-09.50	W F	PHY SC	107	
5	08.00	T	PHY SC	116	
	09.00	MT TH	PARK	124	
	08.00-09.50	W F	PHY SC	108	
6	10.00	M W F	PARK	124	
	11.00	W	PHY SC	116	
	10.00-11.50	T TH	PHY SC	102	
7	10.00	M W F	PARK	124	
	11.00	W	PHY SC	116	
	10.00-11.50	T TH	PHY SC	104	



8	10.00	M W F	PARK	124
	11.00	W	PHY SC	116
	10.00-11.50	T TH	PHY SC	106
9	10.00	M W F	PARK	124
	11.00	F	PHY SC	116
	10.00-11.50	T TH	PHY SC	107
10	10.00	M W F	PARK	124
	11.00	F	PHY SC	116
	10.00-11.50	T TH	PHY SC	108
11	01.00	M W F	PARK	124
	02.00	M	PHY SC	116
	01.00-02.50	T TH	PHY SC	102
12	01.00	M W F	PARK	124
	02.00	M	PHY SC	116
	01.00-02.50	T TH	PHY SC	104
13	01.00	M W F	PARK	124
	02.00	W	PHY SC	116
	01.00-02.50	T TH	PHY SC	106
14	01.00	M W F	PARK	124
	02.00	W	PHY SC	116
	01.00-02.50	T TH	PHY SC	107
15	01.00	M W F	PARK	124
	02.00	M	PHY SC	116
	01.00-02.50	T TH	PHY SC	108
16	03.00	T THF	PARK	124
	04.00	T	PHY SC	116
	03.00-04.50	M W	PHY SC	102
17	03.00	T THF	PARK	124
	04.00	T	PHY SC	116
	03.00-04.50	M W	PHY SC	104
18	03.00	T THF	PARK	124
	04.00	TH	PHY SC	116
	03.00-04.50	M W	PHY SC	106
19	03.00	T THF	PARK	124
	04.00	TH	PHY SC	116
	03.00-04.50	M W	PHY SC	107
20	03.00	T THF	PARK	124
	04.00	T	PHY SC	116
	03.00-04.50	M W	PHY SC	108
21	06.00-07.25 PM	M W	PARK	124
	07.35-08.25 PM	M	PHY SC	116
	06.00-07.50 PM	T TH	PHY SC	102
22	06.00-07.25 PM	M W	PARK	124
	07.35-08.25 PM	M	PHY SC	116
	06.00-07.50 PM	T TH	PHY SC	104
23	06.00-07.25 PM	M W	PARK	124
	07.35-08.25 PM	W	PHY SC	116
	06.00-07.50 PM	T TH	PHY SC	106
24	06.00-07.25 PM	M W	PARK	124
	07.35-08.25 PM	W	PHY SC	116
	06.00-07.50 PM	T TH	PHY SC	107
25	06.00-07.25 PM	M W	PARK	124
	07.35-08.25 PM	W	PHY SC	116
	06.00-07.50 PM	T TH	PHY SC	108
235	GEN QUANT ANALYSIS			05.0 CR
	PREREQ	CHEM 121B		
1	01.00	M W F	PHY SC	410
	01.00-03.50	T TH	PHY SC	408
2	01.00	M W F	PHY SC	218
	01.00-03.50	T TH	PHY SC	409
3	01.00	M W F	PHY SC	218
	02.00-04.50	M W	PHY SC	408
305A	ORG CHEM-PRE PROF			05.0 CR
	PREREQ	CHEM 121B		
1	12.00	M WTH	LS I	133
	12.00-02.50	T	PHY SC	205
2	12.00	M WTH	LS I	133
	12.00-02.50	T	PHY SC	203
3	12.00	M WTH	LS I	133
	12.00-02.50	F	PHY SC	205
4	12.00	M WTH	LS I	133
	12.00-02.50	F	PHY SC	203

5	12.00	M WTH	LS I	133
	09.00-11.50		S PHY SC	205
6	12.00	M WTH	LS I	133
	09.00-11.50		S PHY SC	203
7	12.00	M WTH	LS I	133
	06.00-08.50 PM	W	PHY SC	203
341A	ORGANIC CHEMISTRY			05.0 CR
	PREREQ CHEM 121B			
1	08.00	M W F	AG	166
	08.00-10.50	T TH	PHY SC	205
2	08.00	M W F	AG	166
	08.00-10.50	T THF	PHY SC	203
3	08.00	M W F	AG	166
	09.00-11.50	M W	PHY SC	205
4	08.00	M W F	AG	166
	09.00-11.50	M W	PHY SC	203
5	08.00	M W F	AG	166
	06.00-08.50 PM	M W	PHY SC	205
350	BIOLOGICAL CHEM			04.0 CR
	PREREQ CHEM 240 CR 305B OR 341C			
1	03.00	M W F	PHY SC	218
	02.00-04.50	T	PHY SC	204
2	03.00	M W F	PHY SC	218
	02.00-04.50	TH	PHY SC	204
3	03.00	M W F	PHY SC	218
	12.00-02.50	W	PHY SC	204
375	UNDERGRAD SEMINAR			00.0 TO 02.0 CR
	PREREQ FOR JUNIORS + SENIORS WITH CONCENTRATION IN CHEM			
1	TO BE ARRANGED			
411	INTERMED INORG CHEM			04.0 CR
	PREREQ CHEM 461B			
1	02.00	MTWTH	PHY SC	118
438	REVIEW ANAL CHEM			03.0 CR
	PREREQ GRAD STANDING + CONSENT OF INSTRUCTOR			
1	01.00	M W F	PHY SC	118
446	QUAL ORGANIC ANALY			04.0 CR
	PREREQ CHEM 305B CR 341C + CHEM 461C			
1	06.00	PM M W	PHY SC	410
	06.00-08.50 PM	T TH	PHY SC	205
451A	BIOCHEMISTRY			03.0 CR
	PREREQ CHEM 235, 305B OR 341C-MUST BE TAKEN IN SEQUENCE			
1	08.00	M W F	PHY SC	218
461A	PHYSICAL CHEMISTRY			04.0 CR
	PREREQ 235, 12HRS OF PHYSICS + 1 YR OF CALCULUS			
1	11.00	M W F	PHY SC	118
	08.00-10.50	TH	PHY SC	105
2	11.00	M W F	PHY SC	118
	08.00-10.50	T	PHY SC	105
3	11.00	M W F	PHY SC	118
	11.00-01.50	TH	PHY SC	105
4	11.00	M W F	PHY SC	118
	11.00-01.50	T	PHY SC	105
5	11.00	MT THF	PHY SC	218
472A	X-RAY CRYSTALLOGRAPHY			04.0 CR
	PREREQ CHEM 461B			
1	04.00	M W	TECH B	143
	03.00-04.50	F	TECH B	143
	CROSS-LISTED WITH AP S 401A			
490	CHEM LITERATURE			02.0 CR
	PREREQ CHEM 235 + 305B OR 341C READ KNOW GER CONSENT OF INS			
1	03.00	T TH	PHY SC	118
496A	CHEM PROB ANALY			01.0 TO 12.0 CR
	PREREQ CONSENT CF INSTRUCTOR AND DEPT CHAIRMAN			
1	TO BE ARRANGED			
496B	CHEM PROB BIOCHEM			01.0 TO 12.0 CR
	PREREQ CONSENT CF INSTRUCTOR AND DEPT CHAIRMAN			
1	TO BE ARRANGED			
496C	CHEM PROB INORGANIC			01.0 TO 12.0 CR
	PREREQ CONSENT CF INSTRUCTOR AND DEPT CHAIRMAN			
1	TO BE ARRANGED			
496D	CHEM PROB ORGANIC			01.0 TO 12.0 CR
	PREREQ CONSENT CF INSTRUCTOR AND DEPT CHAIRMAN			
1	TO BE ARRANGED			

496E CHEM PROB PHYSICAL 01.0 TO 12.0 CR  
 PREREQ CONSENT CF INSTRUCTOR AND DEPT CHAIRMAN  
 1 TO BE ARRANGED  
 504 MECH + SYN-ORG CHEM 03.0 CR  
 PREREQ CHEM 341C  
 1 09.00 M W F PHY SC 218  
 511C ADV INORGAN CHEM 03.0 CR  
 PREREQ CHEM 461C  
 1 01.00 M W F PHY SC 116  
 532 INST METH ANALY 03.0 CR  
 PREREQ CHEM 432 CR SATISFACTORY FIELDEXAM  
 1 01.00 T TH PHY SC 410  
 TO BE ARRANGED  
 539 ADV TOPICS-ANAL 02.0 TO 30.0 CR  
 PREREQ CHEM 432 AND 531  
 1 11.00 MT TH PHY SC 410  
 543 ADV ORG CHEM 03.0 CR  
 PREREQ CHEM 542  
 1 12.00 M W F PHY SC 218  
 549 ADV TOPICS-ORGANIC 02.0 TO 30.0 CR  
 PREREQ CHEM 543  
 1 09.00 M W F PHY SC 118  
 552 CARBOHYDRATE CHEM 03.0 CR  
 PREREQ CHEM 451C  
 1 10.00 M W F PHY SC 410  
 561 CHEM THERMODYNAMICS 03.0 CR  
 PREREQ CHEM 461C CR CONSENT OF INSTRUCTOR  
 1 03.00 M W F PHY SC 410  
 569 ADV TOPICS-PHYSICAL 02.0 TO 30.0 CR  
 PREREQ CHEM 561  
 1 08.00 M W F PHY SC 116  
 594A SP READ-CHEM ANALY 02.0 TO 15.0 CR  
 PREREQ 24 HRS OF 500 CHEM AND CONSENT OF DIV  
 1 TO BE ARRANGED  
 594B SP READ-CHEM BIO 02.0 TO 15.0 CR  
 PREREQ 24 HRS OF 500 CHEM AND CONSENT OF DIV  
 1 TO BE ARRANGED  
 594C SP READ-CHEM INORG 02.0 TO 15.0 CR  
 PREREQ 24 HRS OF 500 CHEM AND CONSENT OF DIV  
 1 TO BE ARRANGED  
 594D SP READ-CHEM ORGAN 02.0 TO 15.0 CR  
 PREREQ 24 HRS OF 500 CHEM AND CONSENT CF DIV  
 1 TO BE ARRANGED  
 594E SP READ-CHEM PHYS 02.0 TO 15.0 CR  
 PREREQ 24 HRS OF 500 CHEM AND CONSENT OF DIV  
 1 TO BE ARRANGED  
 595A ADV SEM-CHEM ANALY 00.0 TO 09.0 CR  
 PREREQ 24 HRS OF 500 CHEM AND CONSENT OF DIV  
 1 04.00 M PHY SC 218  
 595B ADV SEM-CHEM BIO 00.0 TO 09.0 CR  
 PREREQ 24 HRS OF 500 CHEM AND CONSENT OF DIV  
 1 04.00 T PHY SC 218  
 595C ADV SEM-CHEM INORG 00.0 TO 09.0 CR  
 PREREQ 24 HRS OF 500 CHEM AND CONSENT CF DIV  
 1 04.00 W PHY SC 218  
 595D ADV SEM-CHEM ORGAN 00.0 TO 09.0 CR  
 PREREQ 24 HRS OF 500 CHEM AND CONSENT OF DIV  
 1 04.00 F PHY SC 218  
 595E ADV SEM-CHEM PHYS 00.0 TO 09.0 CR  
 PREREQ 24 HRS OF 500 CHEM AND CONSENT OF DIV  
 1 04.00 TH PHY SC 218  
 596A ADV CHEM PROB-ANAL 03.0 TO 20.0 CR  
 PREREQ CONSENT CF DEPT CHAIRMAN  
 1 TO BE ARRANGED  
 596B ADV CHEM PROB-BIO 03.0 TO 20.0 CR  
 PREREQ CONSENT CF DEPT CHAIRMAN  
 1 TO BE ARRANGED  
 596C ADV CHEM PROB-INORG 03.0 TO 20.0 CR  
 PREREQ CONSENT CF DEPT CHAIRMAN  
 1 TO BE ARRANGED  
 596D ADV CHEM PROB-ORGAN 03.0 TO 20.0 CR  
 PREREQ CONSENT CF DEPT CHAIRMAN  
 1 TO BE ARRANGED



596E ADV CHEM PROB-PHYS 03.0 TO 20.0 CR  
 PREREQ CONSENT CF DEPT CHAIRMAN  
 1 TO BE ARRANGED

597A RES + THESIS-ANAL 03.0 TO 40.0 CR  
 PREREQ CONSENT CF DEPT CHAIRMAN  
 1 TO BE ARRANGED

597B RES + THESIS-BIO 03.0 TO 40.0 CR  
 PREREQ CONSENT CF DEPT CHAIRMAN  
 1 TO BE ARRANGED

597C RES + THESIS-INORG 03.0 TO 40.0 CR  
 PREREQ CONSENT CF DEPT CHAIRMAN  
 1 TO BE ARRANGED

597D RES + THESIS-ORGAN 03.0 TO 40.0 CR  
 PREREQ CONSENT CF DEPT CHAIRMAN  
 1 TO BE ARRANGED

597E RES + THESIS-PHYS 03.0 TO 40.0 CR  
 PREREQ CONSENT CF DEPT CHAIRMAN  
 1 TO BE ARRANGED

598A RES-DOCTOR ANALY 03.0 TO 48.0 CR  
 PREREQ M A DEGREE OR EQUIV  
 1 TO BE ARRANGED

598B RES-DOCTOR BIOCHEM 03.0 TO 48.0 CR  
 PREREQ M A DEGREE OR EQUIV  
 1 TO BE ARRANGED

598C RES-DOCTOR INORGAN 03.0 TO 48.0 CR  
 PREREQ M A DEGREE OR EQUIV  
 1 TO BE ARRANGED

598D RES-DOCTOR ORGANIC 03.0 TO 48.0 CR  
 PREREQ M A DEGREE OR EQUIV  
 1 TO BE ARRANGED

598E RES-DOCTOR PHYS 03.0 TO 48.0 CR  
 PREREQ M A DEGREE OR EQUIV  
 1 TO BE ARRANGED

600A DISSERT ANALYTICAL 03.0 TO 48.0 CR  
 PREREQ ADMISSION TO PH D CANDIDACY  
 1 TO BE ARRANGED

600B DISSERT BIOCHEM 03.0 TO 48.0 CR  
 PREREQ ADMISSION TO PH D CANDIDACY  
 1 TO BE ARRANGED

600C DISSERT INORGANIC 03.0 TO 48.0 CR  
 PREREQ ADMISSION TO PH D CANDIDACY  
 1 TO BE ARRANGED

600D DISSERT ORGANIC 03.0 TO 48.0 CR  
 PREREQ ADMISSION TO PH D CANDIDACY  
 1 TO BE ARRANGED

600E DISSERT - PHYSICAL 03.0 TO 48.0 CR  
 PREREQ ADMISSION TO PH D CANDIDACY  
 1 TO BE ARRANGED

#### Clothing and Textiles (C & T)

127A CLOTHING SELECTION 02.0 CR  
 1 09.00 T TH H EC 140B RIDLEY

127B CLOTHING CONSTRUCT 02.0 CR  
 1 08.00-09.50 T TH H EC 303  
 2 10.00-11.50 TH S H EC 310  
 3 10.00-11.50 M W H EC 303  
 4 02.00-03.50 T TH H EC 303  
 5 03.00-04.50 W F H EC 310  
 6 05.45-07.25 T TH H EC 310

131 APPLIED DESIGN 03.0 CR  
 1 08.00 T TH H EC 140B  
 12.00-01.50 M H EC 302  
 2 08.00 T TH H EC 140B  
 12.00-01.50 W H EC 302  
 3 08.00 T TH H EC 140B  
 01.00-02.50 F H EC 302  
 4 08.00 T TH H EC 140B  
 08.00-09.50 S H EC 304  
 5 08.00 T TH H EC 140B  
 10.00-11.50 T H EC 302  
 6 05.45-07.25 M W H EC 302

231 APPLIED DESIGN 03.0 CR  
 PREREQ C+T 131,EQUIV CR CONSENT OF INSTRUCTOR

1	09.00	M W	H EC	304	
	08.00-09.50	F	H EC	302	
2	09.00	M W	H EC	304	
	11.00-12.50	F	H EC	302	
233	PATT DES + CLO CONS			03.0 CR	
	PREREQ C+T 127 CR			CONSENT OF CHAIRMAN	
1	10.00-11.50	T TH	H EC	303	BERRY
2	01.00-02.50	M W	H EC	303	BERRY
300	DISPLAY			02.0 TO 04.0 CR	
	PREREQ C+T 131, EQUIVALENT, OR			CONSENT OF INSTRUCTOR	
1	03.00	T TH	H EC	304	
	02.00-03.50	W	H EC	304	
	TO BE ARRANGED				
304	TEXTILES			04.0 CR	
	PREREQ CHEM 110 AND 240				
1	10.00	M W F	H EC	140B	PADGETT
	10.00-11.50	T	H EC	301	
2	10.00	M W F	H EC	140B	PADGETT
	01.00-02.50	T	H EC	301	
3	10.00	M W F	H EC	140B	PADGETT
	01.00-02.50	TH	H EC	301	
360	TAILORING + CONST			04.0 CR	
	PREREQ C+T 233 CR			CONSENT OF CHAIRMAN	
1	12.00	T TH	H EC	310	RIDLEY
	01.00-02.50	M W	H EC	310	RIDLEY
2	12.00	T TH	H EC	310	RIDLEY
	08.00-09.50	M W	H EC	310	RIDLEY
3	12.00	T TH	H EC	310	RIDLEY
	02.00-03.50	T TH	H EC	310	
371	FIELD EXPERIENCE			06.0 CR	
	PREREQ CONSENT OF CHAIRMAN				
1	TO BE ARRANGED				
380	FURN AND INTERIORS			04.0 CR	
1	03.00	TWTHF	H EC	140B	STEWART
390	INTERIOR DES FUND			05.0 CR	
	PREREQ C+T 131 CR			CONSENT OF CHAIRMAN	
1	01.00	M W F	H EC	304	STEWART
	01.00-02.50	T	H EC	304	
	02.00	F	H EC	304	
2	01.00	M W F	H EC	304	STEWART
	01.00-02.50	TH	H EC	304	
	02.00	T	H EC	304	
391C	ADV INTERIOR DESIGN			05.0 CR	
	PREREQ 391B				
1	10.00	T THF	H EC	304	STEWART
	11.00	TH	H EC	304	
	10.00-11.50	M	H EC	304	
2	10.00	T THF	H EC	304	STEWART
	10.00-11.50	W	H EC	304	
	11.00	F	H EC	304	
440	CLOTHING THE FAMILY			04.0 CR	
1	04.00	MT THF	H EC	203	BERRY
481	READINGS			02.0 TO 06.0 CR	
	PREREQ CONSENT OF INSTRUCTOR AND CHAIRMAN				
1	TO BE ARRANGED				PADGETT
572	SPECIAL PROBLEMS			02.0 TO 05.0 CR	
1	TO BE ARRANGED				BERRY
599	THESIS			05.0 TO 09.0 CR	
1	TO BE ARRANGED				BERRY

### Convocation, University (CONV)

000	UNIV CONVOCAION			00.0 CR	
1	01.00	TH	ARENA	555	

### Design (DES)

100	DESIGN FUNDAMENTALS			05.0 TO 15.0 CR	
1	TO BE ARRANGED				
200	MAT AND BASIC TECH			02.0 TO 06.0 CR	
	PREREQ DES 100				
1	TO BE ARRANGED				
215	BASIC P-S DESIGN			04.0 TO 12.0 CR	
	PREREQ DES 100				
1	TO BE ARRANGED				

275	BASIC VISUAL DESIGN	04.0 TO 12.0 CR			
	PREREQ DES 100				
1	01.00-03.50	T F	0848	104	
	03.00-04.50	W	0848	104	
300	MAT AND BASIC TECH	02.0 TO 06.0 CR			
	PREREQ DES 200				
1	TO BE ARRANGED				
345	DESIGN STUDIO	04.0 TO 12.0 CR			
1	TO BE ARRANGED				
2	01.00-03.50	M TH	0853	103	
366	P-S DESIGN	05.0 TO 15.0 CR			
	PREREQ DES 200 215 275				
1	TO BE ARRANGED				
375	VISUAL DESIGN	05.0 TO 15.0 CR			
	PREREQ DES 200 215 215				
1	TO BE ARRANGED				
390	PRIN OF DESIGN	02.0 CR			
1	07.30-09.30 PM	T	0852	101	PERK
400	MAT + BASIC TECH	00.0 TO 02.0 CR			
1	TO BE ARRANGED				
465F	RES IN P-S DESIGN	05.0 TO 15.0 CR			
	PREREQ 12 HRS OF DES 366 OR ITS EQUIV				
1	TO BE ARRANGED				
465G	RES IN VISUAL DES	05.0 TO 15.0 CR			
	PREREQ 12 HRS OF DES 375 OR ITS EQUIV				
1	TO BE ARRANGED				
490F	STUDIO P-S DESIGN	02.0 TO 12.0 CR			
1	TO BE ARRANGED				
490G	STUDIO-VISUAL DES	02.0 TO 12.0 CR			
1	TO BE ARRANGED				
520	EDUC TOOL SYSTEMS	04.0 TO 10.0 CR			
1	TO BE ARRANGED				
530	STUD IN IND PROCESS	04.0 TO 12.0 CR			
1	TO BE ARRANGED				
535	RES IN PRODUCT DES	04.0 TO 12.0 CR			
1	TO BE ARRANGED				
540	STUDIES IN COMM DES	04.0 TO 12.0 CR			
1	TO BE ARRANGED				
545	RES IN COMM DESIGN	04.0 TO 12.0 CR			
1	TO BE ARRANGED				
550	FIELD STUDY DESIGN	02.0 TO 16.0 CR			
1	TO BE ARRANGED				
560	ENVIRONMENT CONTROL	04.0 TO 12.0 CR			
1	TO BE ARRANGED				
599	THESIS	03.0 TO 09.0 CR			
1	TO BE ARRANGED				

#### Economics (ECON)

214	ECONOMICS-MACRO	04.0 CR			
1	08.00	M THF	LAWSON	201	
	08.00	W	MAIN	302	
2	09.00	MTW F	LAWSON	221	
3	12.00	MTWTH	MAIN	309	
4	02.00	MTW F	LAWSON	231	
5	02.00	MTW F	WHAM	308	
6	03.00	MTW F	LAWSON	231	
7	04.00	MTWTH		166	
8	04.00	MTWTH	WHAM	112	
9	05.45-07.25	M W	LAWSON	101	
215	ECONOMICS-MICRO	04.0 CR			
	PREREQ ECON 214				
1	08.00	MTW F	LAWSON	101	
2	11.00	M WTHF	LAWSON	309	
3	11.00	M W F	LAWSON	231	
	11.00	TH	PULL	38	
4	12.00	M W F	LAWSON	231	
	12.00	TH	LAWSON	131	
5	03.00	M WTHF	LAWSON	221	
6	04.00	M WTHF	WHAM	308	
7	04.00	M WTHF	AG	214	
8	05.45-07.25	M W	LAWSON	221	
301	ECONOMIC READINGS	01.0 TO 06.0 CR			
	PREREQ CONSENT OF INSTRUCTOR AND CHAIRMAN				



1	TO BE ARRANGED					
308	ECON-BUS STAT I			04.0 CR		
	PREREQ GSD 110					
1	08.00	T THF	WHAM	302		
	08.00	W	TECH A	308		
2	01.00	M	LAWSON	221	SCULLY	
	01.00	T F	LAWSON	231		
	01.00	TH	TECH D	131		
3	07.35-09.15 PM	T TH	LAWSON	131	BUNGER	
310	LABOR PROBLEMS			04.0 CR		
	PREREQ ECON 215					
1	08.00	MTW	WHAM	206	EDELMAN	
	08.00	TH	PARK	111		
2	02.00	M	COMM	122	KREIDER	
	02.00	W F	MAIN	206		
	02.00	TH	COMM	112		
315	MONEY AND BANKING I			04.0 CR		
	PREREQ ECON 215			CR CONSENT OF INSTRUCTOR		
1	10.00	M	WHAM	203	LAYER	
	10.00	T TH	WHAM	202		
	10.00	W	COMM	116		
2	10.00	M	COMM	122	HOLLENHORST	
	10.00	T TH	PHY SC	116		
	10.00	W	PARK	111		
3	02.00	T THF	CL	24	BRUCKER	
	02.00	W	AG	116		
330	PUBLIC FINANCE			04.0 CR		
	PREREQ ECON 211A, OR 215, OR			CR CONSENT OF INSTRUCTOR		
1	09.00	MT THF	MAIN	302	MORRISON	
408	ECON-BUS STAT II			04.0 CR		
	PREREQ GSD 110					
1	04.00	TWTHF	CL	109	MARKS	
411	COLLECTIVE BARGAIN			04.0 CR		
	PREREQ ECON 310			CR CONSENT OF INSTR		
1	11.00	MTWTH	WHAM	329	EDELMAN	
418	ECON HIST OF EUROPE			04.0 CR		
	PREREQ ECON 211A			CR 215 OR CONSENT OF INSTRUCTOR		
1	05.45-07.25	M W	AG	116	WIEGAND	
429	INTERNATIONAL ECON			04.0 CR		
	PREREQ ECON 215			CR CONSENT OF INSTRUCTOR		
1	12.00	MT THF	MAIN	201		
440	INTERMED MICRO THEC			04.0 CR		
	PREREQ 215 OR			CCNSENT OF THE INSTRUCTOR		
1	09.00	TWTHF	MAIN	201	PULSIPHER	
2	11.00	MT TH	PHY SC	116		
	11.00	W	CL	109		
3	03.00	MT THF	CL	109		
441	INTERMED MACRO TH			04.0 CR		
	PREREQ ECON 214					
1	11.00	MTWTH	MAIN	201	STALON	
2	01.00	M	CL	109	PETRC	
	01.00	TW F	AG	188		
450A	HIST ECON THOUGHT			03.0 CR		
	PREREQ ECON 215			CR CONSENT OF THE INSTRUCTOR		
1	03.00	M WTH	H EC	201	WIEGAND	
461B	COMP ECON DEV-ASIA			04.0 CR		
	PREREQ 461A					
1	08.00	MT THF	WHAM	212	HAITANI	
462	EC DEV MIDDLE EAST			04.0 CR		
	PREREQ ECON 215					
1	12.00	TWTHF	MAIN	305A	BADRE	
465	MATH ECON I			04.0 CR		
	PREREQ ECON 440			CR CONSENT OF INSTR		
1	02.00	MT THF	AG	148	BUNGER	
472	DYNAMIC ECONOMICS			04.0 CR		
	PREREQ ECON 441			CR CONSENT OF INSTR		
1	01.00	TWTHF	CL	109	MARKS	
481	COMP ECON SYSTEMS			04.0 CR		
	PREREQ 215 OR			CCNSENT OF THE INSTRUCTOR		
1	10.00	MT THF	MAIN	201	HAITANI	
500	ECONOMIC SEMINAR			04.0 TO 08.0 CR		
	PREREQ CONSENT CF INSTR					
1	03.00-04.50	T TH	TECH A	220	HOLLENHORST	

2	07.35-09.15 PM	T TH	CL	25	
501	ECONOMICS READING	01.0 TO 05.0	CR		
	PREREQ	CONSENT OF DEPARTMENT			
1	TO BE ARRANGED				
502	READING IN RES ECON	01.0 TO 06.0	CR		
	PREREQ	CONSENT OF FORESTRY DEPT			
1	TO BE ARRANGED				
520A	EC DEV TH + POLICY		04.0	CR	
	PREREQ	ECON 440 AND 441			
1	03.00-04.50	T F	CL	25	BADRE
526	MANAGERIAL ECON		04.0	CR	
	PREREQ	ECON 214 AND 215 OR 351 OR CONSENT OF INSTR			
1	05.45-07.25	T TH	H EC	206	BRUCKER
	CROSS-LISTED WITH BA 526				
531	SEM IN INTL ECON		04.0	CR	
	PREREQ	ECON 530 CR CONSENT OF INSTR			
1	03.00-04.50	M W	WHAM	137	ALLEN
533	PUB FIN THEORY + PR		04.0	CR	
	PREREQ	ECON 330 AND CONSENT OF INSTR			
1	10.00	MTW F	CL	24	RUSSELL
542	PRICE THEORY		04.0	CR	
	PREREQ	ECON 440 CR CONSENT OF INSTR			
1	09.00	MTWTH	CL	109	MARTINSEK
599	THESIS	01.0 TO 09.0	CR		
1	TO BE ARRANGED				
600	DOCTORAL DISSERTAT	01.0 TO 48.0	CR		
1	TO BE ARRANGED				

#### Educational Administration and Foundations (EDAF)

355	PHILOSOPHY OF EDUC		04.0	CR	
1	TO BE ARRANGED				
2	08.00	MTWTH	WHAM	205	
3	09.00	MTWTH	WHAM	205	
4	10.00	MTWTH	WHAM	228	
5	11.00	MTWTH	WHAM	208	
6	12.00	MTWTH	WHAM	202	
7	02.00	MTWTH	WHAM	228	
8	03.00	MTWTH	WOODY	1014	
9	03.00	MTWTH	WOODY	1010	
10	05.45-07.25	M W	WHAM	205	
11	05.45-07.25	T TH	WHAM	202	
431	HIST OF EDUC IN U S		04.0	CR	
1	06.30-09.00 PM	T	WHAM	208	VINOCUR
500	RESEARCH METHODS		04.0	CR	
1	04.00-06.30	TH	WHAM	307	BACH
2	06.30-09.00 PM	M	WHAM	203	BACH
501A	SEMINAR IN EDAD		04.0	CR	
1	06.30-09.00 PM	M	WHAM	228	EWING
502S	SEM CUM ED-SOV RUS		04.0	CR	
1	04.30-07.00	W	WHAM	301B	COUNTS
503	SEM-PHIL OF EDUC		04.0	CR	
	PREREQ	554 OR EQUIVALENT			
1	TO BE ARRANGED				LEAN
507A	20TH CENTURY + EDUC		04.0	CR	
1	04.30-07.00	TH	WHAM	328	BRACEWELL + COUNTS
508A	INTERDISCIP SEM ED		04.0	CR	
	PREREQ	CONSENT OF INSTRUCTOR			
1	06.30-09.00 PM	M	WHAM	301B	HALL
511A	INTERN PRACTICUM		04.0	CR	
	PREREQ	CONSENT OF THE DEPARTMENT ADVISORY COMMITTEE			
1	TO BE ARRANGED				
511B	INTERN PRACTICUM		04.0	CR	
	PREREQ	511A			
1	TO BE ARRANGED				
511C	INTERN PRACTICUM		04.0	CR	
	PREREQ	511B			
1	TO BE ARRANGED				
524A	SCHL ADMINISTRATION		04.0	CR	
1	04.00-06.30	T	WHAM	228	STUCK
533	SCHOOL BUILDINGS		04.0	CR	
1	05.00-07.30	TH	WHAM	228	NEAL
534C	EDUCATIONAL DATA P		04.0	CR	
1	04.00-06.30	M	WHAM	329	KAISER + BLISS

554	CONTRAST PHIL IN ED	04.0 CR	
	PREREQ 355 OR PHIL 355 OR EQUIVALENT		
1	09.00-11.30 S WHAM 328	LEAN	
556A	SCHOOL SUPERVISION	04.0 CR	
1	06.30-09.00 PM T WHAM 312	ARMISTEAD	
560	CURRICULUM	04.0 CR	
1	06.30-09.00 PM T WHAM 321	FISHBACK	
564	H S PRINCIPALSHIP	04.0 CR	
1	06.30-09.00 PM M WHAM 208	ADAMS	
575A	IND RES CURRICULUM	01.0 TO 04.0 CR	
	PREREQ 500, APPRCVAL CF DEPT ADVISOR + CONSENT OF INSTRUCT		
1	TO BE ARRANGED		
575B	IND RES SUPERVISION	01.0 TO 04.0 CR	
	PREREQ 500, APPRCVAL CF DEPT ADVISOR + CONSENT OF INSTRUCT		
1	TO BE ARRANGED		
575C	IND RES BUILDINGS	01.0 TO 04.0 CR	
	PREREQ 500, APPRCVAL CF DEPT ADVISOR + CONSENT OF INSTRUCT		
1	TO BE ARRANGED		
575D	IND RES FINANCE	01.0 TO 04.0 CR	
	PREREQ 500, APPRCVAL CF DEPT ADVISOR + CONSENT OF INSTRUCT		
1	TO BE ARRANGED		
575E	IND RES SCHOOL LAW	01.0 TO 04.0 CR	
	PREREQ 500, APPRCVAL CF DEPT ADVISOR + CONSENT OF INSTRUCT		
1	TO BE ARRANGED		
575F	IND RES COMPAR EDUC	01.0 TO 04.0 CR	
	PREREQ 500, APPRCVAL CF DEPT ADVISOR + CONSENT OF INSTRUCT		
1	TO BE ARRANGED		
575G	IND RES HIST EDUC	01.0 TO 04.0 CR	
	PREREQ 500, APPRCVAL CF DEPT ADVISOR + CONSENT OF INSTRUCT		
1	TO BE ARRANGED		
575H	IND RES PHIL EDUC	01.0 TO 04.0 CR	
	PREREQ 500, APPRCVAL CF DEPT ADVISOR + CONSENT OF INSTRUCT		
1	TO BE ARRANGED		
575J	IND RES ADMIN	01.0 TO 04.0 CR	
	PREREQ 500, APPRCVAL CF DEPT ADVISOR + CONSENT OF INSTRUCT		
1	TO BE ARRANGED		
576A	READINGS ADM-SUPV	01.0 TO 04.0 CR	
	PREREQ CONSENT CF DEPT CHAIRMAN AND INSTRUCTOR		
1	TO BE ARRANGED		
576B	READINGS ADM-SUPV	01.0 TO 04.0 CR	
	PREREQ CONSENT CF DEPT CHAIRMAN AND INSTRUCTOR		
1	TO BE ARRANGED		
576C	READINGS ADM-SUPV	01.0 TO 04.0 CR	
	PREREQ CONSENT CF DEPT CHAIRMAN AND INSTRUCTOR		
1	TO BE ARRANGED		
589	GEN GRAD SEMINAR	04.0 CR	
	PREREQ CONSENT CF INSTRUCTOR		
1	07.00-09.30 PM M H EC 208	EAMES	
	CROSSLISTED WITH PHILOSOPHY		
591	SEM-SOC + PHIL FOUN	02.0 CR	
	PREREQ ADVANCED STANDING		
1	10.00-11.50 M WHAM 301B	MCKENZIE	
	OPEN TO FULLY ADMITTED DOCTORAL STUDENTS		
592	DOCT SEM CULT FOUN	04.0 CR	
	PREREQ 591		
1	10.00-11.50 T TH WHAM 301A	MCKENZIE	
596	IND INVESTIGATION	05.0 TO 09.0 CR	
1	TO BE ARRANGED		
597	THESIS	01.0 TO 03.0 CR	
1	TO BE ARRANGED		
598	THESIS	01.0 TO 03.0 CR	
1	TO BE ARRANGED		
599	THESIS	01.0 TO 03.0 CR	
1	TO BE ARRANGED		
600	DISSERTATION	01.0 TO 48.0 CR	
1	TO BE ARRANGED		

#### Elementary Education (ELED)

100	INTRO TO ELEM EDUC	03.0 CR	
1	08.00 M W F WHAM 210	WILLIAMS	
2	09.00 T TH S WHAM 228	ROSSC	
3	12.00 M W F WHAM 210		
4	02.00 M W F WHAM 210	BRADFIELD	



5	03.00	M W F	WHAM	210	
101	DEVEL RDING-LRN SKL			02.0	CR
1	08.00	M W F	WHAM	114	
2	08.00	T TH S	WHAM	114	
3	09.00	MTW	WHAM	114	
4	10.00	M W F	WHAM	114	
5	10.00	T TH S	WHAM	114	
6	11.00	T TH S	WHAM	114	
7	11.00	M W F	WHAM	114	
8	12.00	M W F	WHAM	114	
9	01.00	M W F	WHAM	114	
10	02.00	M W F	WHAM	114	
11	03.00	M W F	WHAM	114	
12	04.00	M W F	WHAM	114	
13	07.30-08.20 PM	TWTH	WHAM	114	
	SPECIAL REGISTRATICN PROCEDURE				
14	08.30-09.20 PM	TWTH	WHAM	114	
	SPECIAL REGISTRATICN PROCEDURE				
203	UNDRSTD EL SCH CHLD			03.0	CR
	PREREQ	GSB 201C			
1	02.00	T TH	WHAM	210	LEE
	BLOCK COURSE FOR FIELD EXP. SEE FOOTNOTE				BELOW
2	03.00	T TH	WHAM	210	LEE
309	KIND-PRIM SOC STUD			03.0	CR
	PREREQ	316			
1	01.00	MTWTH	WHAM	206	ZIMNY
2	03.00	MTWTH	WHAM	206	ZIMNY
314	ELEM SCHOOL METHODS			04.0	CR
	PREREQ	GUID 305			
1	08.00	MTWTH	WHAM	203	MALONE
	EL ED MAJORS ONLY				
2	09.00	MTWTH	WHAM	203	BROD
	EL ED MAJORS ONLY				
3	09.00	TWTHF	WHAM	303	NEWPORT
	BLOCK COURSE FOR FIELD EXP SEE FOOTNOTE				BELOW
4	10.00	MTWTH	WHAM	206	RANDOLPH
	EL ED MAJORS ONLY				
5	11.00	MTWTH	WHAM	203	ZIMNY
	EL ED MAJORS ONLY				
6	02.00	MTWTH	WHAM	206	RANDOLPH
	EL ED MAJORS ONLY				
316	KINDER PRIMARY METH			04.0	CR
	PREREQ	GUID 305			
1	09.00	MTWTH	WHAM	206	BAKER
337	READING IN ELEM SCH			04.0	CR
	PREREQ	314			
1	09.00	MTWTH	WHAM	210	RAGSDALE
	EL ED MAJORS ONLY				
2	10.00	MTWTH	WHAM	210	FISHCO
	EL ED MAJORS ONLY				
3	11.00	MTWTH	WHAM	206	RANDOLPH
	EL ED MAJORS ONLY				
4	01.00	MTWTH	WHAM	210	RAGSCALE
	EL ED MAJORS ONLY				
5	02.00	MTWTH	WHAM	203	BROD
	EL ED MAJORS ONLY				
350	KIND PRI STUD TCH			04.0	TO 16.0 CR
1	TO BE ARRANGED				
351	EL STUDENT TCH			04.0	TO 16.0 CR
1	TO BE ARRANGED				
	(GENERAL)				
2	TO BE ARRANGED				
	(ART)				
3	TO BE ARRANGED				
	(EMH)				
4	TO BE ARRANGED				
	(MUSIC)				
5	TO BE ARRANGED				
	(PE)				
6	TO BE ARRANGED				
	(PH)				
7	TO BE ARRANGED				
	(SP C)				

8	TO BE ARRANGED					
	(SP ED)					
375	READINGS IN EL ED	02.0 TO 03.0 CR				
1	TO BE ARRANGED				SLOAN	
411	SEM - INSTRUCTION	04.0 CR				
1	TO BE ARRANGED				HEINZ	
	BLOCK COURSE FOR FIELDEXP-SEE FOOTNOTE BELOW					
413	CHILDRENS LIT	04.0 CR				
	PREREQ GUID 305					
1	10.00	MTWTH	WHAM	208	MCLAREN	
2	11.00	MTWTH	WHAM	210	MCLAREN	
3	02.00	MTWTH	WHAM	208	MCLAREN	
415	IMPR ARITH ELEM SCH	02.0 TO 04.0 CR				
	PREREQ MATH 210 CR CONSENT OF INSTRUCTOR					
1	10.00	TWTHF	WHAM	203		
2	06.30-09.00 PM	T	WHAM	210		
431	ED FOR DISADV CHILD	02.0 CR				
	PREREQ 337					
1	TO BE ARRANGED				SLOAN	
	BLOCK COURSE FOR FIELDEXP-SEE FOOTNOTE BELOW					
442	TEACH EL SCH SCI	04.0 CR				
1	10.00	MTWTH	PULL	304	NEWPORT	
2	01.00	MTWTH	PULL	304	NEWPORT	
3	06.30-09.00 PM	TH	PULL	304	HUNGERFORD	
505	READING IN ELEM SCH	04.0 CR				
1	06.30-09.00 PM	T	WHAM	203	BROD	
507	READINGS IN READING	02.0 TO 04.0 CR				
	PREREQ 505 AND CONSENT OF INSTRUCTOR					
1	TO BE ARRANGED				HILL	
509	PRACTICUM IN READ	04.0 TO 08.0 CR				
	PREREQ 521A, B, AND C, AND CONSENT OF INSTRUCTOR					
1	TO BE ARRANGED				FISHCO	
519	READINGS-ELEM MATH	02.0 TO 04.0 CR				
	PREREQ 415, 515					
1	TO BE ARRANGED					
520	DIAG ELEM MATH DISA	04.0 CR				
	PREREQ 515 OR CONCURRENT REGISTRATION					
1	TO BE ARRANGED					
521A	DIAG-COR READ DISAB	04.0 CR				
	PREREQ 505, OR CONCURRENT REGISTRATION, AND TEACHING EXPER					
1	09.00-11.30	S	WHAM	118	FISHCO	
542	LANG ARTS IN EL SCH	01.0 TO 04.0 CR				
1	06.30-09.00 PM	M	WHAM	210	RAGSCALE	
560	KIND-PRI ED	04.0 CR				
	PREREQ CONSENT OF INSTRUCTOR					
1	06.30-09.00 PM	W	WHAM	206	BAKER	
561	ELEM SCH CURR	04.0 CR				
1	06.30-09.00 PM	M	WHAM	201	LEE	
575A	IND RES CURRICULUM	02.0 TO 04.0 CR				
1	TO BE ARRANGED				LEE	
575B	IND RES SUPERVISION	02.0 TO 04.0 CR				
1	TO BE ARRANGED				BRADFELD	
575C	IND RES LANG ARTS	02.0 TO 04.0 CR				
1	TO BE ARRANGED				RAGSCALE	
575D	IND RES SCIENCE	02.0 TO 04.0 CR				
1	TO BE ARRANGED				NEWPORT	
575E	IND RES READING	02.0 TO 04.0 CR				
1	TO BE ARRANGED				FISCHO	
575F	IND RES SOC STUD	02.0 TO 04.0 CR				
1	TO BE ARRANGED				RANDOLPH	
575G	IND RES ELEM ED	02.0 TO 04.0 CR				
1	TO BE ARRANGED				SLOAN	
575H	IND RES ARITHMETIC	02.0 TO 04.0 CR				
1	TO BE ARRANGED					
575J	IND RES PROB IN K-P	02.0 TO 04.0 CR				
1	TO BE ARRANGED				BAKER	
596	INDEPENDENT INVEST	05.0 TO 09.0 CR				
1	TO BE ARRANGED					
599	THESIS	03.0 TO 09.0 CR				
1	TO BE ARRANGED					
600	DISSERTATION	01.0 TO 48.0 CR				
1	TO BE ARRANGED				LEE	
2	TO BE ARRANGED				SLOAN	

### 3 TO BE ARRANGED

HILL

203 Section 1: Block Program: Students should leave Monday free for participation in the schools and must take E1Ed 314 Section 3; E1Ed 411; E1Ed 431; and Guid 305 Section 1

314 Section 3: Block Program: Students should leave Monday free for participation in the schools and must take E1Ed 203 Section 1; E1Ed 411; E1Ed 431; and Guid 305 Section 1.

### Engineering (ENGR)

100	ORIENTATION			02.0 CR
1	04.00	T TH	TECH A	111
222	DIGITAL COMP PROG			03.0 CR
	PREREQ MATH 111B			
1	09.00	T TH	TECH A	111
	12.00	M W	WHAM	24
2	09.00	T TH	TECH A	111
	12.00	T TH	WHAM	24
3	09.00	T TH	TECH A	111
	04.00	M W	WHAM	24
4	09.00	T TH	TECH A	111
	04.00	T TH	WHAM	24
5	09.00	T TH	TECH A	111
	05.00	M W	WHAM	24
6	09.00	T TH	TECH A	111
	05.00	T TH	WHAM	24
7	09.00	T TH	TECH A	111
	04.00	M W	WHAM	24
8	09.00	T TH	TECH A	111
	04.00	M W	WHAM	24
9	09.00	T TH	TECH A	111
	12.00	M W	WHAM	24
10	09.00	T TH	TECH A	111
	12.00	T TH	WHAM	24
11	09.00	T TH	TECH A	111
	05.00	M W	WHAM	24
12	09.00	T TH	TECH A	111
	05.00	T TH	WHAM	24
260A	ANAL MECHANICS			03.0 CR
	PREREQ CONCURRENT ENROLLMENT MATH 150B			
1	09.00	M W F	TECH A	210
2	11.00	M W F	TECH A	210
3	06.00-07.25 PM	M W	TECH D	131
260C	ANAL MECHANICS			03.0 CR
	PREREQ ENGR 260B			
1	10.00	M W F	TECH A	308
300A	THERMODYNAMICS			03.0 CR
	PREREQ ENGR 260C			
1	08.00	M W F	TECH D	131
2	10.00	M W F	TECH D	131
3	01.00	M W F	TECH D	131
4	03.00	M W F	TECH D	131
5	06.00-07.25 PM	T TH	TECH D	131
311A	ENGR MATERIALS			03.0 CR
	PREREQ ENGR 260C			
1	10.00	T TH	TECH A	111
	02.00-04.50	M	TECH D	14
2	10.00	T TH	TECH A	111
	06.00-08.50 PM	M	TECH D	14
3	10.00	T TH	TECH A	111
	06.00-08.50 PM	T	TECH D	14
313A	FLUID MECHANICS			03.0 CR
	PREREQ ENGR 260C			
1	09.00	M W F	TECH D	14A
2	02.00	M W F	TECH D	14A
331A	CIR-FIELD THEORY			04.0 CR
	PREREQ MATH 305A CR CCNCURRENT ENROLLMENT			
1	08.00	M W F	TECH A	111
	02.00-04.50	TH	TECH D	104
2	08.00	M W F	TECH A	111
	06.00-08.50 PM	W	TECH D	104
3	08.00	M W F	TECH A	111
	06.00-08.50 PM	M	TECH D	104



412A	ENGR PRACTICE	03.0 CR
	PREREQ ENGR 222, MATH 252A	
1	12.00 M W F TECH A 220	
413A	INTER MECH OF FLUID	03.0 CR
	PREREQ ENGR 313A, B, MATH 305A	
1	10.00 M W F TECH D 14A	
415A	WATER QUALITY CONTR	03.0 CR
	PREREQ CHEM 111C AND CONSENT OF INSTR	
1	TO BE ARRANGED	
416A	AIR POLLUT CONTROL	03.0 CR
1	TO BE ARRANGED	
417	DYN-COMPR FLUID FLC	03.0 CR
	PREREQ ENGR 313A, B	
1	TO BE ARRANGED	
420A	TRANS PHENOMENA	03.0 CR
	PREREQ ENGR 370	
1	11.00 M W F TECH B 42	
422	OPERATIONS RESEARCH	04.0 CR
	PREREQ MATH 150B, ENGR 222	
1	09.00 M WTHF TECH A 320	
430	SPECIAL PROBLEMS	02.0 TO 08.0 CR
	PREREQ CONSENT CF INSTR	
1	TO BE ARRANGED	
432	ANALOG COMP-ENG DES	03.0 CR
	PREREQ MATH 305A	
1	04.00 M W F TECH D 116	
435A	ELECTRONICS	03.0 CR
	PREREQ ENGR 331B	
1	08.00 T TH TECH D 108	
	01.00-03.50 TH TECH D 110	
436	CONTROL THEORY	03.0 CR
	PREREQ ENGR 331B	
1	TO BE ARRANGED	
439A	TRANSIENT ANALYSIS	03.0 CR
	PREREQ ENGR 331B, MATH 305B	
1	01.00 M W F TECH A 222	
440A	STRUCTURES	03.0 CR
	PREREQ ENGR 311A, B	
1	10.00 M W F TECH A 310	
442	STRUCT DESIGN-METAL	04.0 CR
	PREREQ ENGR 440A, B OR CONSENT OF INSTRUCTOR	
1	08.00 S TECH A 210	
	05.30-07.30 W PHY SC 118	
443A	ENGINEERING DESIGN	03.0 CR
	PREREQ ENGR 300, 311, 331	
1	11.00 T TH TECH A 208	
	03.00-04.50 T TECH A 307	
2	11.00 T TH TECH A 208	
	09.00-10.50 T TECH A 307	
3	11.00 T TH TECH A 208	
	01.00-02.50 T TECH A 307	
448	EXPER STRESS ANALYS	04.0 CR
	PREREQ ENGR 311A, B OR ENGR TECH 311A, B	
1	02.00 M W F TECH D 12	
450	FUND REACTIVE SYST	04.0 CR
	PREREQ CHEM 121B AND ENGR 300A OR CONSENT OF INSTRUCTOR	
1	08.00 M W F TECH B 42	
	01.00-02.50 T TECH B 42	
480A	ENGR PROCESS DESIGN	03.0 CR
	PREREQ ENGR 313A, 300A, B	
1	TO BE ARRANGED	
502A	ADV HEAT TRANSFER	03.0 CR
	PREREQ GRAD STANDING	
1	03.00 M W F TECH A 221	
510A	ELECTROMAG FIELDS	03.0 CR
	PREREQ CONSENT CF INSTR	
1	TO BE ARRANGED	
511A	QUANTUM ELECTRONICS	03.0 CR
	PREREQ CONSENT CF INSTR	
1	TO BE ARRANGED	
512A	CONTINUUM MECHANICS	04.0 CR
	PREREQ MATH 306	
1	TO BE ARRANGED	

513	MECH VISCOUS FLUIDS	03.0 CR
	PREREQ ENGR 413A,B, OR CONSENT OF INSTR	
1	TO BE ARRANGED	
517A	ANAL-DES OF SYSTEMS	04.0 CR
	PREREQ MATH 306, ENGR 300 AND 311	
1	TO BE ARRANGED	
520A	REACTION ENGR	03.0 CR
	PREREQ ENGR 420	
1	TO BE ARRANGED	
570	SPECIAL INVESTIGAT	02.0 TO 06.0 CR
1	TO BE ARRANGED	
580	SEMINAR	01.0 TO 09.0 CR
1	TO BE ARRANGED	
599	THESIS	01.0 TO 09.0 CR
1	TO BE ARRANGED	

### Engineering Technology (E T)

100	ORIENTATION		02.0 CR
1	04.00	T TH	TECH A 111
102A	GRAPHIC COMMUNICAT		03.0 CR
1	08.00	TH	TECH A 111
	08.00-09.50	T F	TECH A 209
2	08.00	TH	TECH A 111
	10.00-11.50	T F	TECH A 209
3	08.00	TH	TECH A 111
	01.00-02.50	T F	TECH A 209
4	08.00	TH	TECH A 111
	03.00-04.50	T F	TECH A 209
5	08.00	TH	TECH A 111
	08.00-09.50	T F	TECH A 219
6	08.00	TH	TECH A 111
	10.00-11.50	T F	TECH A 219
7	08.00	TH	TECH A 111
	01.00-02.50	T F	TECH A 219
8	11.00	TH	TECH A 111
	03.00-04.50	T F	TECH A 219
9	11.00	TH	TECH A 111
	08.00-09.50	M W	TECH A 209
10	11.00	TH	TECH A 111
	10.00-11.50	M W	TECH A 209
11	11.00	TH	TECH A 111
	01.00-02.50	M W	TECH A 209
12	11.00	TH	TECH A 111
	03.00-04.50	M W	TECH A 209
13	11.00	TH	TECH A 111
	06.00-07.50 PM	T TH	TECH A 209
102B	GRAPHIC COMMUNICAT		03.0 CR
	PREREQ E T 102A		
1	09.00	F	TECH A 111
	10.00-11.50	M W	TECH A 207
2	09.00	F	TECH A 111
	01.00-02.50	M W	TECH A 207
3	09.00	F	TECH A 111
	03.00-04.50	M W	TECH A 207
260A	ANALYTIC MECHANICS		03.0 CR
	PREREQ MATH 150B	CR	CONCURRENT ENROLLMENT IN MATH 150B
1	08.00	M W F	TECH A 208
2	03.00	M W F	TECH A 208
3	06.00-07.25 PM	M W	TECH A 222
260C	ANALYTIC MECHANICS		03.0 CR
	PREREQ E T 260B		
1	10.00	T TH S	TECH D 131
303A	ELECTRONIC TECH		03.0 CR
1	09.00	M W	TECH A 111
	06.00-08.50 PM	M	TECH D 106
2	09.00	M W	TECH A 111
	02.00-04.50	F	TECH D 106
3	09.00	M W	TECH A 111
	06.00-08.50 PM	TH	TECH D 106
304A	ELECTRICAL CIRCUITS		03.0 CR
	PREREQ MATH 252		
1	09.00	M W	TECH A 208
	06.00-07.50 PM	TH	TECH D 104

2	11.00	M W	TECH A	322
	09.00-10.50	T	TECH D	104
3	11.00	T TH	TECH A	111
	01.00-02.50	W	TECH D	104
304C	ELECTRICAL CIRCUITS		03.0	CR
	PREREQ E T 304B			
1	01.00	T TH	TECH D	104
	02.00-04.50	T	TECH D	104
308A	MACHINE DESIGN		03.0	CR
	PREREQ E T 260			
1	08.00	M W F	TECH A	322
310A	CONST MECHANICS		03.0	CR
	PREREQ E T 260			
1	12.00	M W F	TECH A	310
311A	ENGR MATERIALS		03.0	CR
	PREREQ E T 260C			
1	08.00	T	LAWSON	221
	09.00-11.50	T	TECH D	14
	08.00	TH	AG	168
2	08.00	T	LAWSON	221
	09.00-11.50	F	TECH D	14
	08.00	TH	AG	168
3	08.00	T	LAWSON	221
	06.00-08.50 PM	TH	TECH D	14
	08.00	TH	AG	168
314A	SOIL MECHANICS		03.0	CR
	PREREQ E T 311			
1	03.00	M W	TECH A	222
	09.00-11.50	S	TECH D	12A
2	03.00	M W	TECH A	222
	09.00-11.50	TH	TECH D	12A
318A	HYDRAULICS		03.0	CR
	PREREQ E T 260C			
1	08.00	M W F	TECH D	14A
2	01.00	M W F	TECH D	14A
332A	ELECT MACHINERY		03.0	CR
	PREREQ E T 304			
1	11.00	T TH	AG	168
	06.00-09.00 PM	W	TECH A	122
2	11.00	T TH	AG	168
	02.00-04.50	M	TECH D	122
3	11.00	T TH	AG	168
	02.00-04.50	TH	TECH D	122
336A	ELECTRICAL MEAS		03.0	CR
	PREREQ E T 304			
1	10.00	M W	TECH A	208
	02.00-04.50	W	TECH D	106
2	10.00	M W	TECH A	208
	06.00-08.50 PM	T	TECH D	106
340	MECHANISMS		04.0	CR
	PREREQ E T 260C			
1	12.00	MT THF	TECH A	308
342A	ENGR TECH DESIGN		03.0	CR
	PREREQ E T 304, ENGR 300B, E T 311			
1	02.00	M W F	TECH A	308
349A	UNIT OPERATIONS		03.0	CR
	PREREQ ENGR 300B, E T 304 AND 311			
1	03.00	M W	TECH A	307
	03.00-04.50	F	TECH D	14C
363A	SURVEYING		04.0	CR
	PREREQ E T 101			
1	12.00	T TH	TECH A	111
	09.00-11.50	T TH	TECH A	319
2	12.00	T TH	TECH A	111
	02.00-04.50	T TH	TECH A	319
3	12.00	T TH	TECH A	111
	09.00-11.50	M W	TECH A	319
426A	PHOTOGRAMMETRY		03.0	CR
	PREREQ E T 363A			
1	04.00	M W F	TECH A	319
437A	IND ELECT AND COMM		03.0	CR
	PREREQ E T 304			



1	09.00	T TH	TECH A	208
	02.00-04.50	T	TECH D	106
2	09.00	T TH	TECH A	208
	09.00-11.50	F	TECH D	106
465A	INDUSTRIAL SAFETY			04.0 CR
	PREREQ JR STANDING			
1	10.00	MT THF	TECH A	222

## English (ENG)

105A	ENG COMP-FOREIGN ST	03.0	TO 06.0	CR
	PREREQ EQUIVALENT TO GSD	101-LIMITED TO FOREIGN STUDENTS		
1	08.00	MTWTHF	WHAM	137
2	08.00	MTWTHF	H EC	122A
3	09.00	MTWTHF	WOODY	1010
105B	ENG COMP-FOREIGN ST	03.0	TO 06.0	CR
	PREREQ EQUIVALENT TO GSD	102-LIMITED TO FOREIGN STUDENTS		
1	03.00	MTWTHF	H EC	122A
2	04.00	MTWTHF	H EC	122A
300A	GRAMMATICAL ANAL		03.0	CR
1	10.00	MT TH	WHAM	329
2	12.00	M W F	H EC	102
3	01.00	M W F	H EC	118
4	03.00	MT TH	MAIN	303
5	04.00	M W F	WHAM	203
300B	GRAMMATICAL ANAL		03.0	CR
	PREREQ ENG 300A			
1	12.00	MT TH	WHAM	206
2	03.00	M W F	MAIN	203
3	04.00	MT TH	GYM	204
302A	ENG LIT TO 1550		04.0	CR
	PREREQ REQUIRED	CF STUDENTS WITH CONCENTRATION IN ENGLISH		
1	08.00	MT THF	WHAM	312
2	09.00	MT THF	PULL	41
3	12.00	MT THF	MAIN	303
4	03.00	M	MAIN	201
	03.00	T TH	PARK	301
	03.00	F	PARK	308
5	03.00	M	H EC	24
	03.00	W	CL	109
	03.00	TH	PARK	309
	03.00	F	WHLR	107
6	07.35-09.15 PM	M W	H EC	122
302B	ENG LIT 1550-1750		04.0	CR
	PREREQ REQUIRED	CF STUDENTS WITH CONCENTRATION IN ENGLISH		
1	09.00	M	MAIN	203
	09.00	T THF	GYM	203
2	11.00	MT THF	MAIN	203
3	05.45-07.25	T TH	H EC	118
302C	ENG LIT-AFTER 1750		04.0	CR
	PREREQ REQUIRED	CF STUDENTS WITH CONCENTRATION IN ENGLISH		
1	10.00	MT THF	H EC	122
2	03.33-03.50	MT THF	MAIN	301
309A	AMER LIT-TO 1860		04.0	CR
1	08.00	MT THF	WHAM	329
2	09.00	MT THF	WHAM	321
3	01.00	MT THF	MAIN	303
4	02.00	MT THF	CL	25
309B	AMER LIT-SINCE 1860		04.0	CR
1	02.00	MT THF	MAIN	303
309C	AM LIT 1914-PRESENT		04.0	CR
1	01.00	MT THF	MAIN	203
2	04.00	MT THF	MAIN	102A
3	05.45-07.25	T TH	MAIN	102
390	ADVANCE COMPOSITION		03.0	CR
	PREREQ A C AVERAGE IN GSD 101, 102 AND GSC 103			
1	09.00	W F	MAIN	203
	09.00	M	CL	25
2	11.00	M W F	WHAM	301A
3	02.00	M W F	TECH A	120
4	03.00	M	AG	220
	03.00	T TH	WHAM	205
5	04.00	M W F	WHLR	203
400	INTRO-STRUCT LINGUI		04.0	CR

1	09.00	MT THF	WHAM	312	KATRANIDES
2	01.00	MT THF	WHAM	321	CARRELL
	SEC 2 FOR ENGLISH MAJORS ONLY - NO M.A.E.F.L.				
3	03.00	MT THF	WHAM	328	MILLER
402	OLD ENG LIT TRANS		04.0 CR		
1	11.00	MT THF	WHAM	321	GARDNER
404A	MID ENG LIT-EX CHAU		04.0 CR		
1	12.00	MT THF	WHAM	321	GARDNER
407A	ARTICULATORY PHONET		04.0 CR		
	PREREQ ENG 400 CR ITS EQUIVALENT				
1	11.00	MT THF	WHAM	312	REDDEN
2	12.00	MT THF	WHAM	3018	REDDEN
412A	16C ENG LIT-NON DR		04.0 CR		
	PREREQ MAY BE TAKEN SINGLY				
1	10.00	MT THF	WHAM	319	HATTEN
412B	17C ENG LIT-NON DR		04.0 CR		
	PREREQ MAY BE TAKEN SINGLY				
1	09.00	MT THF	WHAM	321	SCHULTZ
412C	18C ENG LIT-NON DR		04.0 CR		
	PREREQ MAY BE TAKEN SINGLY				
1	09.00	MT THF	MAIN	305A	VIETH
421A	ENG POET-EARLY ROM		04.0 CR		
1	04.00	MT THF	WHAM	210	GOODIN
421C	ENG POET-VICTORIAN		04.0 CR		
1	02.00	MT THF	WHAM	321	HILLEGAS
431A	AM WRIT 1620-1800		04.0 CR		
1	11.00	MT THF	WHAM	319	STIBITZ
438	BACKGROUND AMER LIT		04.0 CR		
1	12.00	MT THF	WHAM	205	STIBITZ
454A	ENG FICT-18C NOVEL		04.0 CR		
1	12.00	MT THF	H EC	203	SCHONHORN
454B	ENG FICT-VICT NOVEL		04.0 CR		
1	08.00	MT THF	WHAM	321	PARTLOW
454C	ENG FICT-CONTEMP BR		04.0 CR		
1	01.00	MT THF	WHAM	319	BOYLE
456	MODERN CONT FICT		04.0 CR		
1	02.00	M	PHY SC	218	RAIZIS
	02.00	T THF	H EC	122	
460A	BRIT DRAMA-ELIZABTH		04.0 CR		
1	09.00	MT THF	H EC	122	BROWN
471A	SHAKESPEARE		04.0 CR		
1	10.00	MT THF	MAIN	203	SHAKESPEARE
471B	SHAKESPEARE		04.0 CR		
1	03.00	MT THF	H EC	122	WINN
2	05.45-07.15	M W	WHAM	202	GRIFFIN
485	PROB TEACH ENG /P/		04.0 CR		
1	08.00	M F	PULL	43A	
	08.00	T TH	PULL	41	
2	01.00-02.50	M W	MAIN	209	EVANS
492B	PROFESSIONAL WRI II		04.0 CR		
	PREREQ ENGLISH 392				
1	01.00-02.50	T TH	H EC	122A	KINSELLA
494	LIT IN SOCIETY		04.0 CR		
1	03.00-04.50	M W	WHLR	214	
495B	LIT CRITICISM-MOD		04.0 CR		
1	08.00	MT THF	MAIN	303	RUDNICK
497A	HONORS ENGLISH		04.0 CR		
	PREREQ DEPARTMENTAL APPROVAL REQUIRED				
1	11.00	MT THF	WOODY	1010	RAINBOW
	TOPIC FAULKNER				
497B	HONORS ENGLISH		04.0 CR		
	PREREQ DEPARTMENTAL APPROVAL REQUIRED				
1	10.00	MT THF	WHAM	321	
	TOPIC CHAUCER				
497C	HONORS ENGLISH		04.0 CR		
1	TO BE ARRANGED				LAWSON
499	READINGS IN ENGLISH	02.0 TO 06.0 CR			
	PREREQ NO MORE THAN FOUR HRS MAY BE TAKEN IN ANY ONE QTR				
1	TO BE ARRANGED				LAWSON
2	03.00-04.50	M F	WHAM	321	MOORE
	OFFERED FOR 4HRS CREDIT ONLY-CATHER, DREISER, ANDERSON				
500	M + M ENG RESEARCH		02.0 CR		
1	09.00	M TH	WHAM	329	RAINBOW

2	09.00	T F	WHAM	329	RAINBOW
514	STUD REST 18 C LIT	04.0 TO 24.0	CR		
1	10.00-11.50	MT TH	H EC	122A	VIETH
	TOPIC RESTORATION DRAMA				
519	STUD CONT BRIT LIT	04.0 TO 12.0	CR		
1	01.00-02.50	T TH	WHAM	212	EPSTEIN
	FINNEGANS WAKE				
520	STUD ROM WRITERS	04.0 TO 12.0	CR		
1	05.45-07.25	T TH	WHAM	301B	BENZIGER
534	STUD EAR 19C AM WR	04.0 TO 12.0	CR		
1	01.00-02.50	M W	H EC	122	WEBB
	TOPIC MELVILLE				
537	STUD 20TH C AM WR	04.0 TO 12.0	CR		
1	03.00-04.50	T TH	WHAM	301B	PIPER
	TOPIC FAULKNER				
538	PROB IN AM LIT	04.0 TO 12.0	CR		
1	10.00-11.50	T F	H EC	122A	HURLEY
	TOPIC CONTEMPORARY NEGRO AND JEWISH WRITERS				
540	STUDIES-LINGUISTICS	02.0 TO 08.0	CR		
	PREREQ ENGLISH 400 OR EQUIVALENT, CONSENT OF INSTRUCTOR				
1	02.00	MT THF	WHAM	301B	MILLER
566	STUD IN SHAKESPEARE	04.0 TO 12.0	CR		
1	08.00	MTWTH	WHAM	301B	BALDWIN
581C	LIT IN HIGH SCHOOL		04.0	CR	
1	06.00-09.00 PM	M	WHAM	312	APPLEBY
585	TEACHING COL COMP		02.0	CR	
1	TO BE ARRANGED				DAVIS
588A	METH ENG FOR LANG		03.0	CR	
1	10.00	M	COMM	118	KATRANIDES
	10.00	T THF	WHAM	301B	
2	10.00	MT TH	WHAM	137	PARISH
	10.00	F	CL	326	
597	READ-LINGUISTICS	02.0 TO 06.0	CR		
	PREREQ ENGLISH 400 OR EQUIVALENT-CONSENT OF DEPARTMENT				
1	TO BE ARRANGED				PARISH
598A	IND REV ENG AM LIT	01.0 TO 03.0	CR		
1	TO BE ARRANGED				GRIFFIN
598B	IND REV ENG AM LIT	01.0 TO 03.0	CR		
1	TO BE ARRANGED				GRIFFIN
600	DISSERTATION	01.0 TO 48.0	CR		
1	TO BE ARRANGED				

# Faculty in Finance (FIN)

305	PERSONAL FINANCE		04.0	CR	
1	TO BE ARRANGED				
320	INTRO TO BUS FIN		04.0	CR	
	PREREQ ACCT 261 CR CONSENT OF INSTRUCTOR, ECON 215				
1	09.00	MTWTHF	PULL	38	WINN
2	11.00	MTWTHF	LAWSON	221	
3	11.00	T THF	WHAM	302	
	12.00	W	PARK	124	
	12.00	M	LAWSON	121	
4	03.00	MTWTHF	LS I	16	
323	INVESTMENTS		04.0	CR	
	PREREQ 320 OR CONSENT OF INSTRUCTOR				
1	11.00	MT THF	LAWSON	131	WINN
324	SECURITY ANALYSIS		04.0	CR	
	PREREQ 323				
1	01.00	MTW F	AG	216	
325	FINANCIAL MARKETS		04.0	CR	
	PREREQ FIN 320 CR CONSENT OF INSTRUCTOR				
1	10.00	MTWTH	WOODY	1014	FENSTERMAKER
327	RISK MANAGEMENT		04.0	CR	
	PREREQ JUNIOR STANDING				
1	04.00	TWTHF	H EC	206	
371	BUSINESS LAW I		04.0	CR	
1	08.00	M WTHF	LAWSON	221	
2	08.00	M WTHF	MAIN	309	ADAMS
3	08.00	M WTHF	PULL	38	
4	01.00	M WTHF	AG	166	
5	01.00	M WTHF	LAWSON	131	
372	BUSINESS LAW II		04.0	CR	
	PREREQ 371				



1	10.00	MT THF	PARK	201	WATERS
421	MGT OF BUS FINANCE		04.0	CR	
	PREREQ 320				
1	10.00	M W F	PARK	308	
	10.00	T	AG	308	
430	BUSINESS FINANCE		04.0	CR	
1	03.00	MTWTHF	LS I	16	
473	BUS IN LEG ENVIRON		04.0	CR	
	PREREQ SENIOR STANDING				
1	01.00	MTW F	WOODY	1014	LAYCCCK
2	03.00	MTW F	WHAM	308	

### Food & Nutrition (F & N)

100	FUNDAMENT NUTRI		03.0	CR	
1	08.00	M W F	H EC	140B	KONISHI FRANK
256	SCIENCE OF FOOD		05.0	CR	
	PREREQ F+N 100, CHEM 110 AND 240 OR EQUIVALENT				
1	12.00	M W F	H EC	140B	HARPER JAN
	12.00-01.50	T TH	H EC	214	
2	12.00	M W F	H EC	140B	HARPER JAN
	08.00-09.50	T TH	H EC	214	BECKER
3	12.00	M W F	H EC	140B	HARPER JAN
	12.00-01.50	T TH	H EC	212	BECKER
320	NUTRITION		03.0	CR	
	PREREQ F+N 100, CHEM 110 + 240				
1	11.00	M W	H EC	203	PAYNE IRENE
	11.00-12.50	F	H EC	214	
335	MEAL MANAGEMENT		04.0	CR	
	PREREQ F+N 256				
1	03.00	T TH	H EC	203	BECKER
	04.00-05.50	T TH	H EC	105	HARPER
2	03.00	T TH	H EC	203	BECKER
	02.00-03.50	W F	H EC	105	
356	EXPERIMENTAL FOODS		04.0	CR	
	PREREQ F+N 256				
1	08.00-09.50	TH	H EC	101	
	08.00-09.50	T S	H EC	212	
361	FOOD SERV ORG + MGT		03.0	CR	
	PREREQ F+N 256				
1	10.00	M W F	H EC	212	BECKER
363	FOOD PUR FOR INSTIT		03.0	CR	
	PREREQ F+N 256 FIELD TRIP				
1	08.00	M W F	H EC	214	
500	RESEARCH METHODS		04.0	CR	
	PREREQ F+N 420, 421, CR EQUIVALENT AND STATISTICS				
1	TO BE ARRANGED		H EC		PAYNE
515	SEMINAR		01.0 TO 06.0	CR	
	PREREQ F+N 420 CR 421				
1	02.00	M	H EC	107	HARPER
572	SPECIAL PROBLEMS		02.0 TO 08.0	CR	
1	TO BE ARRANGED				
599	THESIS		05.0 TO 09.0	CR	
	PREREQ CONSENT OF INSTRUCTOR				
1	TO BE ARRANGED				

### Foreign Languages (FL)

353	METH TEACH MOD F L		04.0	CR	
	PREREQ FR, GER, SPAN, OR RUSS 201C				
1	03.00	M	H EC	203	ANDERSON
	03.00	T	H EC	208	
	03.00	W	H EC	206	
	03.00	F	WHAM	302	

### Chinese (CHIN)

120A	CHIN CONVERSATION		01.0	CR	
	PREREQ CONCURRENT ENROLLMENT IN GSD 120A				
1	10.00	TH	GYM	203	YANG
201A	INTER CHINESE		05.0	CR	
1	11.00	MTWTHF	PULL	43A	YANG
315	READINGS IN CHINESE		02.0 TO 06.0	CR	
	PREREQ CHIN 201C				
1	09.00	T TH	WHAM	212	YANG

French	(FR)				
123A	FRENCH CONVERSATION		01.0 CR		
	PREREQ	CONCURRENT	ENROLLMENT IN GSD 123A		
1	08.00	T	MAIN	202	
2	09.00	T	MAIN	308	
3	10.00	TH	PARK	301	
4	11.00	TH	H EC	122	
5	12.00	TH	MAIN	203	
6	01.00	W	H EC	120	
7	02.00	T	MAIN	308	
8	03.00	TH	WHLR	107	
9	04.00	T	WHLR	212	
10	06.00	PM M	MAIN	202	
123B	FRENCH CONVERSATION		01.0 CR		
	PREREQ	CONCURRENT	ENROLLMENT IN GSD 123B		
1	11.00	T	PULL	43	
123C	FRENCH CONVERSATION		01.0 CR		
	PREREQ	CONCURRENT	ENROLLMENT IN GSD 123C		
1	11.00	M	PULL	41	
161A	FR FOR GRAD STUDENT		00.0 CR		
1	03.00	MTWTH	WHLR	207	
161B	FR FOR GRAD STUDENT		00.0 CR		
1	03.00	MTWTH	WHLR	203	
201A	INTERMEDIATE FRENCH		03.0 CR		
	PREREQ	GSD 123-9 CR	GSD 123C, OR 2 YRS HIGH SCHOOL		
1	08.00	MT TH	WHLR	207	
	08.00	F	MAIN	101	
2	08.00	MT F	PULL	43	
	08.00	W	MAIN	101	
3	09.00	W F	AG	188	
	09.00	T	WHLR	207	
	09.00	M	MAIN	101	
4	10.00	M	PULL	39	
	10.00	T F	H EC	206	
	10.00	TH	MAIN	101	
5	11.00	M F	WHAM	317	
	11.00	T	WHAM	210	
	11.00	W	MAIN	101	
6	12.00	M	WHLR	214	
	12.00	T TH	WHLR	207	
	12.00	W	MAIN	101	
7	12.00	MT TH	PULL	43	
	12.00	F	MAIN	101	
8	01.00	M TH	WHLR	212	
	01.00	F	WHLR	214	
	01.00	W	MAIN	101	
9	02.00	TW F	H EC	102	
	02.00	M	MAIN	101	
10	02.00	M W	AG	154	
	02.00	TH	AG	116	
	02.00	F	MAIN	101	
11	04.00	M WTH	WHLR	113	
	04.00	T	MAIN	101	
12	04.00	MT TH	MAIN	303	
	04.00	W	MAIN	101	
201B	INTERMEDIATE FRENCH		03.0 CR		
	PREREQ	FR 201A CR EQUIVALENT			
1	12.00	M W F	H EC	201	
	12.00	T	MAIN	101	
201C	INTERMEDIATE FRENCH		03.0 CR		
	PREREQ	FR 201A CR EQUIVALENT			
1	01.00	M	AG	148	
	01.00	W F	PULL	43	
	01.00	TH	MAIN	101	
220A	INTER FR CONVERSAT		02.0 CR		
	PREREQ	FR 201C CR	CONCURRENT REGISTRATION IN 201		
1	08.00	W F	MAIN	202	
2	09.00	W	WHAM	3018	
	09.00	F	WHAM	137	
3	10.00	W F	PULL	41	
4	11.00	T TH	MAIN	306	
5	12.00	T TH	WHLR	203	
6	02.00	T TH	WHLR	203	

350	ADV COMP-AND CONV			04.0 CR	
	PREREQ	PREREQ FR 201C			
1	10.00	MTWTH	AG	220	
2	10.00	MTW	TECH A	120	
	10.00	TH	TECH A	308	
354	INTRO LIT ANALYSIS			04.0 CR	
	PREREQ	FR 350			
1	02.00	M W	PULL	43A	
	02.00	T TH	PULL	41	
397A	SURVEY FR LIT			03.0 CR	
	PREREQ	PREREQ FR 350 CR	PERMISSION OF INSTRUCTOR		
1	09.00	MT TH	AG	188	
397C	SURVEY FR LIT			03.0 CR	
	PREREQ	PREREQ FR 350 CR	CONSENT OF INSTRUCTOR		
1	01.00	M W F	WHAM	303	
403A	18TH CENT FR LIT			03.0 CR	
1	07.35-09.00 PM	T TH	WHLR	113	
429A	FR NOVEL + THEATRE			03.0 CR	
	PREREQ	354 AND ONE QUARTER OF 397			
1	09.00	M W F	MAIN	202	KILKER
461	FRENCH STYLISTICS			04.0 CR	
	PREREQ	350 OR CONSENT OF INSTRUCTOR			
1	10.00	MT THF	AG	218	CMEARA
501	SEM SELC FR AUTHOR			03.0 CR	
1	02.00	M W F	AG	218	ROWLAND
502	FR LIT TO RABELAIS			03.0 CR	
1	01.00	M WTH	WHAM	301B	
543	RESEARCH PROBLEMS			02.0 TO 06.0 CR	
1	TO BE ARRANGED	=			DAVIS
599	THESIS			02.0 TO 09.0 CR	
1	TO BE ARRANGED				KILKER

Prospective Teachers see F L 353 for listing of methods in teaching modern foreign languages.

German	(GER)				
126A	GERMAN CONVERSATION			01.0 CR	
	PREREQ	CONCURRENT ENROLLMENT IN GSD 126A			
1	08.00	TH	WHLR	212	
2	09.00	TH	WHAM	208	
3	01.00	TH	MAIN	305A	
4	02.00	T	MAIN	305	
5	03.00	T	MAIN	305A	
6	06.00	PM TH	MAIN	305A	
126B	GERMAN CONVERSATION			01.0 CR	
	PREREQ	CONCURRENT ENROLLMENT IN GSD 126A			
1	04.00	TH	H EC	202	
126C	GERMAN CONVERSATION			01.0 CR	
	PREREQ	CONCURRENT ENROLLMENT IN GSD 126C			
1	09.00	TH	MAIN	202	
161A	GER FOR GRAD STUD			00.0 CR	
1	02.00	M W	MAIN	305A	
	02.00	T F	WHLR	214	
161B	GER FOR GRAD STUD			00.0 CR	
1	02.00	MTW F	MAIN	207	
201A	INTERMEDIATE GERMAN			03.0 CR	
	PREREQ	GSD 126-9 CR 126C EQUIVALENT			
1	09.00	M W F	WHLR	212	
	09.00	T	MAIN	101	
2	11.00	W F	WHLR	207	
	11.00	M	WHLR	203	
	11.00	TH	MAIN	101	
3	01.00	TW F	WHLR	212	
	01.00	M	MAIN	101	
4	02.00	M W F	WHLR	212	
	02.00	T	MAIN	101	
5	03.00	TW F	H EC	118	
	03.00	M	MAIN	101	
201C	INTERMEDIATE GERMAN			03.0 CR	
	PREREQ	GER 201B CR EQUIVALENT			
1	12.00	M W F	H EC	118	
	12.00	TH	MAIN	101	
220A	INTER GER CONVERSAT			02.0 CR	
	PREREQ	GER 201C CR CONCURRENT REGISTRATION OF 201			



1	09.00	T TH	H EC	122A	
2	11.00	T TH	WHLR	212	
3	01.00	T TH	WHLR	214	
301A	SUR GER LIT TO 1800		04.0	CR	
1	09.00	T TH	WHLR	203	COSENTINO
	09.00	M F	WHAM	301B	
304A	ADV COMP + CONVERS		04.0	CR	
1	10.00	M WTHF	WHAM	312	LIEDLOFF
310A	INTRO TO GERMAN LIT		04.0	CR	
1	11.00	M TH	WHLR	207	ANDERSON
	11.00	T	MAIN	207	
	11.00	F	MAIN	305	
402	ADV GER SYNTAX		03.0	CR	
1	10.00	M W F	WHLR	207	FRENCH
	REQUIRED OF ALL TEACHING ASSISTANTS				
411A	MIDDLE HIGH GERMAN		03.0	CR	
1	02.00	M W F	WHLR	203	FRENCH
497	READG 18TH CT LIT		02.0	CR	
1	TO BE ARRANGED				HARTWIG
512	19TH CENTURY NOVEL		03.0	CR	
1	09.00	M W F	WHLR	203	LIEDLOFF
543	RESEARCH PROBLEMS		02.0 TO 06.0	CR	
1	TO BE ARRANGED				
599	THESIS		02.0 TO 09.0	CR	
1	TO BE ARRANGED				

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#### Greek (GRK)

201A	INTERMEDIATE GREEK		04.0	CR	
1	TO BE ARRANGED				
315	READINGS-GRK AUTHOR		02.0 TO 08.0	CR	
	PREREQ BY PERMISSION ONLY				
1	TO BE ARRANGED				

#### Italian (ITAL)

144A	ITALIAN CONVERSAT		01.0	CR	
	PREREQ CONCURRENT ENROLLMENT IN GSD 144A				
1	09.00	T	WHLR	107	
2	01.00	T	HEC	202	
3	06.00 PM	W	WHLR	107	
201A	INTERMEDIATE ITAL		03.0	CR	
1	10.00	MT	AG	154	
	10.00	F	COMM	112	
	10.00	W	MAIN	101	

#### Latin (LATN)

201A	INTERMEDIATE LATIN		04.0	CR	
1	11.00	MT THF	MAIN	304A	SHELBY
301	CICERO-ESSAYS + LET		04.0	CR	
	PREREQ LATN 201C CR EQUIVALENT				
1	09.00	MTWTH	WHAM	137	SHELBY
315	READ-LATN AUTHORS		02.0 TO 08.0	CR	
	PREREQ BY SPECIAL PERMISSION ONLY				
1	10.00	W F	WHAM	137	SHELBY

#### PORT

135A	PORT CONVERSATION		01.0	CR	
	PREREQ CONCURRENT GSD 135A				
1	09.00	TH	H EC	106	HEVERLY
2	10.00	W	PULL	43A	HEVERLY
201A	INTERMEDIATE PORT		03.0	CR	
1	03.00	M W F	WHAM	329	HEVERLY
	03.00	T	MAIN	101	

#### Romance Philology (R PH)

410	ROMANCE PHILOLOGY I		04.0	CR	
1	01.00	M WTHF	WHLR	207	DAVIS

#### Russian (RUSS)

136A	RUSS CONVERSATION		01.0	CR	
	PREREQ CONCURRENT ENROLLMENT IN GSD 136A				
1	08.00	TH	WHLR	203	

2	10.00		TH	WHAM	212	
3	02.00		TH	WHLR	207	
4	06.00	PM	M	H EC	122A	
201A	INTERMED RUSSIAN				03.0 CR	
1	09.00		MT	F	WHLR	214 SHANKOVSKY
	09.00		W		MAIN	101
220A	INTER RUSS CONVER				02.0 CR	
	PREREQ	RUSS 201	CR	CONCURRENT REGISTRATION IN	201	
1	11.00		T	TH	WHAM	212 ORECHWA
308A	SURV RUSS LIT				03.0 CR	
	PREREQ	RUSS 201C				
1	10.00		M	W	F	WHLR 203 KUPCEK
330A	ADV COMP AND CONV				02.0 CR	
	PREREQ	CONCURRENT ENROLLMENT IN	RUSS	308A		
1	10.00		T	TH	WHLR	203 SHANKOVSKY
412	RUSSIAN REALISM				04.0 CR	
	PREREQ	RUSS 308C				
1	02.00		M	W	F	WHAM 137 SHANKOVSKY
	02.00		T			H EC 120
514A	HISTORY - RUSS LANG				02.0 CR	
1	11.00		T	TH	WHLR	203 KUPCEK
520	RUSS LING STRUCTURE				04.0 CR	
1	TO BE ARRANGED				WHAM	KUPCEK
543	RESEARCH PROBLEMS			02.0 TO 06.0	CR	
1	TO BE ARRANGED					KUPCEK
599	THESIS			02.0 TO 09.0	CR	
1	TO BE ARRANGED					

Spanish (SPAN)

140A	SPAN CONVERSATION				01.0 CR	
	PREREQ	CONCURRENT ENROLLMENT IN	GSD	140A		
1	09.00		T		H EC	106
2	10.00		TH		WHLR	212
3	11.00		W		MAIN	304A
4	12.00		TH		WHAM	137
5	01.00		T		WHAM	301B
6	02.00		TH		PARK	301
7	03.00		TH		WHAM	212
8	04.00		T		WHLR	203
9	06.00	PM	M		WHLR	107
140B	SPAN CONVERSATION				01.0 CR	
	PREREQ	CONCURRENT ENROLLMENT IN	GSD	140B		
1	08.00		T		WHLR	203
140C	SPAN CONVERSATION				01.0 CR	
	PREREQ	CONCURRENT ENROLLMENT IN	GSD	140C		
1	11.00		W		WHAM	307
161A	SPAN FOR GRAD STUD				00.0 CR	
1	01.00		M	W	PULL	43A
	01.00		T	TH	COMM	120
161B	SPAN FOR GRAD STUD				00.0 CR	
1	01.00		MTWTH		MAIN	102
201A	INTERMED SPANISH				03.0 CR	
	PREREQ	GSD 140-9	CR	GSD	140C OR 2 YRS HIGH SCHOOL	
1	TO BE ARRANGED					
	01.00		T		MAIN	101
2	08.00		M	W	F	WHLR 113
	08.00		T		MAIN	101
3	09.00		M	W	F	MAIN 305
	09.00		TH		MAIN	101
4	10.00		TH		MAIN	302
	10.00			F	MAIN	101
	10.00		T		WHLR	212
	10.00		M		PULL	41
5	11.00		M	W	F	AG 150
	11.00		T		MAIN	101
6	02.00		M	W		H EC 104
	02.00		TH		MAIN	101
	02.00			F	H EC	120
7	03.00		MT	TH	WHLR	113
	03.00		W		MAIN	101
8	06.00-07.25 PM		M	W		H EC 120
	05.00		M		MAIN	101

201C	INTERMED SPANISH			03.0 CR	
	PREREQ	SPAN 201B			
1	12.00		T THF	COMM	111
	12.00		M	MAIN	101
220A	INTER SPAN CONVER			02.0 CR	
	PREREQ	SPAN 201C	CR	CCNCURRENT	REGISTRATION IN 201
1	09.00		W F	H EC	122A
2	09.00		W F	CL	25
3	12.00		T TH	H EC	104
4	12.00		T TH	MAIN	202
5	06.00	PM	T TH	H EC	122
6	06.00	PM	T TH	H EC	120
310A	SURVEY SPANISH LIT			03.0 CR	
	PREREQ	SPAN 201			
1	09.00		M	LS I	205
	09.00		W F	H EC	104
2	11.00		M W F	WHLR	212
3	02.00		M	F	H EC
	02.00		W	MAIN	102
320A	ADV COMP AND CONV			02.0 CR	
1	10.00		T TH	WHLR	113
2	11.00		T TH	H EC	104
3	02.00		T TH	MAIN	102
4	03.00		T TH	WHAM	317
333A	SURV SPAN AMER LIT			03.0 CR	
	PREREQ	SPAN 201C			
1	10.00		M W F	WHLR	212
2	01.00		M W F	WHAM	212
401	SP NOVEL 19TH CENT			03.0 CR	
1	09.00		MT TH	H EC	104
424	GAUCHO LITERATURE			03.0 TO 04.0	CR
1	12.00		MT TH	H EC	122
475	GEN TOPICS IN SPAN			03.0 TO 12.0	CR
1	TO BE ARRANGED				JONES
501	SEMINAR SP AUTHOR			02.0 TO 06.0	CR
1	02.00-03.50		TH	WHLR	212
520	SEMINAR IN SYNTAX			03.0 CR	
1	11.00		M WTHF	WHLR	107
525	SPANISH BALLADS			03.0 CR	
1	10.00		M W F	WHLR	113
543	RESEARCH PROBLEMS			02.0 TO 06.0	CR
1	TO BE ARRANGED				
599	THESIS			02.0 TO 09.0	CR
1	TO BE ARRANGED				

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### Forestry (FOR)

104	INTRO FORESTRY			03.0 CR	
1	08.00		T TH	LAWSON	133
	08.00-10.50		S	AG	187
221	DENDROLOGY			04.0 CR	
1	08.00		M W F	AG	214
	10.00-11.50		M	AG	195
2	08.00		M W F	AG	214
	01.00-02.50		M	AG	187
3	08.00		M W F	AG	214
	01.00-02.50		W	AG	187
4	08.00		M W F	AG	214
	08.00-09.50		TH	AG	187
320	WOOD TECHNOLOGY			04.0 CR	
	PREREQ	GSA 201C			
1	02.00		T TH	AG	168
	10.00-11.50		M W	AG	187
2	02.00		T TH	AG	168
	03.00-04.50		M W	AG	187
330	HARV FOREST PRODUCT			02.0 CR	
1	09.00		M W	AG	225
369	FOR PHOTOGRAMMETRY			03.0 CR	
1	09.00-10.50		T TH	AG	195
2	03.00-04.50		M W	AG	195
381	AGRI SEMINAR			01.0 TO 02.0 CR	
	PREREQ	LIMITED TC SENIOR	STANDING		



1	04.00	T	AG	225	
	CROSS-LISTED WITH AG I, AN I, PL I 381				
390	SPEC STUD FORESTRY	01.0 TO 06.0	CR		
	PREREQ ADV STANDING + CONSENT OF INSTRUCTOR (3.75) AVERAGE				
1	TO BE ARRANGED				
	CROSS-LISTED WITH BCT 440				
440	GRASSLAND ECOLOGY	04.0	CR		
	PREREQ GSA 340 CR CONSENT OF INSTRUCTOR				
1	09.00	T TH	LS I	323	
	TO BE ARRANGED				
450	FOREST + PARK MGT	04.0	CR		
	PREREQ FOR 350A+B				
1	01.00	MTWTH	AG	168	MCCURDY
466	WATERSHED MGT	03.0	CR		
	PREREQ FOR 301, GSA 330 OR CONSENT OF INSTRUCTOR				
1	08.00	T TH	AG	214	BUDELSKY
	08.00-09.50	F	AG	168	
470A	ECON OF FORESTRY	04.0	CR		
	PREREQ GSB 211A				
1	11.00	MTWTHF	AG	214	MCCURDY
520A	READ FOR + FOR REC	01.0 TO 06.0	CR		
	PREREQ CONSENT OF INSTRUCTOR				
1	TO BE ARRANGED				
520B	READINGS RES ECON	01.0 TO 06.0	CR		
	PREREQ CONSENT OF INSTRUCTOR + FOR 375 OR EQUIVALENT				
1	TO BE ARRANGED				
520C	READ FOR PRO WD SCI	01.0 TO 06.0	CR		
	PREREQ CONSENT OF INSTRUCTOR				
1	TO BE ARRANGED				
575	RESEARCH	01.0 TO 06.0	CR		MOSLEMI
1	TO BE ARRANGED				
581	ADVANCED FOR SEMIN	01.0 TO 06.0	CR		
	PREREQ CONSENT OF INSTRUCTOR				
1	TO BE ARRANGED				
599	THESIS	01.0 TO 09.0	CR		
1	TO BE ARRANGED				

### Geography (GEOG)

300	INTRO TO GEOG	04.0	CR		
1	10.00	T TH	LAWSON	221	SCHMUDDE
	10.00-11.50	W	AG	144	
2	10.00	T TH	LAWSON	221	SCHMUDDE
	10.00-11.50	F	AG	144	
302	PHYSICAL GEOGRAPHY	04.0	CR		
	PREREQ GEOG 300				
1	01.00	MTWTH	AG	144	CARTER
304	ECONOMIC GEOGRAPHY	04.0	CR		
	PREREQ GEOG 300				
1	09.00	MTWTH	AG	144	
306	CULTURAL GEOGRAPHY	04.0	CR		
1	02.00	MTWTH	AG	144	LOBB
310A	CARTOGRAPH METHODS	04.0	CR		
	PREREQ GEOG 300				
1	02.00-03.50	T TH	0431	101	IRWIN
402A	ADV PHYSICAL GEOG I	04.0	CR		
	PREREQ GEOG 302 CR CONSENT OF DEPT				
1	11.00	MTWTH	0483	102	SHARPE
404A	ADV ECON GEOG I	04.0	CR		
	PREREQ GEOG 304-4				
1	01.00	MTWTH	0483	102	SMITH
406A	ADV CULT GEOG I	04.0	CR		
	PREREQ GEOG 306 CR CONSENT OF DEPT				
1	12.00	MTWTH	AG	144	
424	REG PROB IN RES MGT	04.0	CR		
1	03.00	MTWTH	AG	144	BEAZLEY
440	READINGS-MAJORS	02.0 TO 06.0	CR		
	PREREQ MAJORS ONLY				
1	TO BE ARRANGED				
443	TEACHING OF GEOG	04.0	CR		
	PREREQ GEOG 300				
1	08.00	MTWTH	0483	102	
467B	REG GEOG-LATIN AMER	03.0	CR		
1	10.00	MTWTH	0483	102	LOBB

490A	TUTORIAL IN GEOG	01.0 TO 04.0 CR			
	PREREQ GEOG MAJCR AND SENIOR STANDING				
1	10.00-11.50	F	0483	102	
490B	TUTORIAL IN GEOG	01.0 TO 04.0 CR			
	PREREQ GEOG MAJCR AND SENIOR STANDING				
1	10.00-11.50	F	0483	102	
490C	TUTORIAL IN GEOG	01.0 TO 04.0 CR			
	PREREQ GEOG MAJCR AND SENIOR STANDING				
1	10.00-11.50	F	0483	102	THOMAS
500	GEOG TECHNIQUES I	04.0 CR			
1	06.00-09.00 PM	TH	AG	144	PENNINGTION
505A	PRO-SEMINAR IN GEOG	02.0 CR			
	PREREQ GRAD STANDING				
1	03.00-04.50	M	0483	102	SCHMUDDE
505B	PRO-SEMINAR IN GEOG	02.0 CR			
	PREREQ GRAD STANDING				
1	03.00-04.50	T	0483	102	SCHMUDDE
505C	PRO-SEMINAR IN GEOG	02.0 CR			
	PREREQ GRAD STANDING				
1	03.00-04.50	W	0483	102	SMITH
505D	PRO-SEMINAR IN GEOG	02.0 CR			
	PREREQ GRAD STANDING				
1	03.00-04.50	TH	0483	102	SMITH
514	TEACH COLL GEOG	02.0 CR			
	PREREQ GRAD STANDING				
1	12.00	T	0483	102	
	08.00-12.00	MTWTHF	0483	102	
	THE MEETING TIME 8-12 ONLY MEETS SEPT 16-20				
515	FIELD COURSE	04.0 CR			
	PREREQ CONSENT CF DEPARTMENT				
1	TO BE ARRANGED				THOMAS
520	SEMINAR PHYS GEOG	04.0 CR			
1	06.00-09.00 PM	M	0483	102	
521	SEM-ECON GEOG	04.0 CR			
1	06.00-09.00 PM	T	0483	102	
524	SEM CULTURAL GEOG	02.0 TO 08.0 CR			
1	06.00-09.00 PM	W	0483	102	
530	INDEP STUDY GEOG	02.0 TO 10.0 CR			
1	TO BE ARRANGED				
540A	RESEARCH PHYS GEOG	04.0 CR			
	PREREQ GEOG 520				
1	06.00-09.00 PM	TH	0486	12	CARTER
540B	RESEARCH-ECON GEOG	02.0 TO 36.0 CR			
	PREREQ GEOG 521				
1	TO BE ARRANGED				
540C	RESEARCH REG GEOG	02.0 TO 36.0 CR			
	PREREQ GEOG 522				
1	TO BE ARRANGED				
540D	RESEARCH CULT GEOG	02.0 TO 36.0 CR			
	PREREQ GEOG 524				
1	TO BE ARRANGED				
599	THESIS	03.0 TO 09.0 CR			
	PREREQ CONSENT CF DEPT				
1	TO BE ARRANGED				
600	DISSERTATION	01.0 TO 48.0 CR			
	PREREQ CONSENT CF DEPT				
1	TO BE ARRANGED				

## Geology (GEOL)

220	PHYSICAL GEOLOGY	03.0 CR			
	PREREQ HIGH SCHCCL OR COLLEGE CHEMISTRY				
1	11.00	M	F	PARK	111 MILLER
	09.00-11.50	W		PARK	1E
2	11.00	M	F	PARK	111 MILLER
	01.00-03.50	W		PARK	1E
310A	MINERALOGY I	04.0 CR			
	PREREQ GEOL 220, CHEM 111B OR CONCURRENT ENROLLMENT				
1	03.00-04.50	MT TH		PARK	103 HOOD
415	OPTICAL MINERALOGY	03.0 CR			
	PREREQ GEOL 310, PHYS 208				
1	08.00-09.50	M W F	0875	102	FANG
420A	GEOLOG OF PETROLEUM	04.0 CR			
	PREREQ GEOL 221, 302				

1	01.00	M F	PARK	110	BELL
	12.00-03.50	W	PARK	110	
425A	INVERT-PALEONTOLOGY		04.0 CR		
1	10.00	TW F	PARK	1E	UTGAARD
	01.00-03.50	TH	PARK	107	
435A	HYDROGEOLOGY		04.0 CR		
1	TO BE ARRANGED				DAVIS
436A	ELEM EXPLOR GEOPHYS		04.0 CR		
	PREREQ	GEOL 220, PHYS 211 OR CONCURRENT ENROLLMENT			
1	11.00	M W F	PARK	115	
	01.00-03.50	T	PARK	115	
440	INDEPENDENT STUDY		01.0 TO 04.0 CR		
	PREREQ	GEOL 220, 221, ADVANCED STANDING			
1	TO BE ARRANGED				FARRIS
515A	MIN DEP--PRINCIPLES		04.0 CR		
1	02.00	M W F	PARK	103	HOOE
	01.00-02.50	T	PARK	103	
528	INTRO TO MICROPALAE		03.0 TO 09.0 CR		
	PREREQ	GEOL 425			
1	TO BE ARRANGED				FRAUNFELTER
540	ADV STUD-STRUCTURE		01.0 TO 09.0 CR		
	PREREQ	CONSENT CF INSTRUCTOR			
1	TO BE ARRANGED				SAWATZKY
541	RESEARCH		01.0 TO 09.0 CR		
1	TO BE ARRANGED				
599	THESIS		02.0 TO 09.0 CR		
1	TO BE ARRANGED				

### Government (GOVT)

200	INTR TO POL SCIENCE		04.0 CR		
1	03.00	MT THF	AG	166	EVERSON
231	AMERICAN NATL GOVT		04.0 CR		
1	08.00	TWTHF	WHAM	201	CHASTAIN
2	01.00	MTWTH	WHAM	201	HANSON
232	STATE LOCAL GOVT		04.0 CR		
	PREREQ	231 OR GSB 211B			
1	10.00	MT THF	WHAM	201	KENNEY
2	12.00	MT THF	WHAM	203	ISAKOFF
3	02.00	MTW F	WHAM	201	RIDGEWAY
4	04.00	MTWTH	WHAM	208	JACKSON
305	DEV AM CONSTITUTION		05.0 CR		
	PREREQ	GOVT 231			
1	02.00	MTWTHF	LAWSON	131	
315	ADMIN OF JUSTICE		03.0 CR		
	PREREQ	GOVT 232			
1	11.00	M W F	LAWSON	101	DREHER
321	READINGS		01.0 TO 06.0 CR		
	PREREQ	CONSENT CF INSTRUCTOR			
1	TO BE ARRANGED				SAPPENFIELD
330	ILL GOVERNMENT		02.0 CR		
	PREREQ	GOVT 232			
1	10.00	W F	LAWSON	131	BIANCHI
340	THE LEGIS PROCESS		03.0 CR		
	PREREQ	GOVT 231			
1	12.00	M W F	LAWSON	131	VANDERSLIK
360	PUBLIC ADMIN		05.0 CR		
	PREREQ	GOVT 231			
1	08.00	MTWTHF	LAWSON	131	TURNER
2	03.00	MTWTHF	WHAM	201	SAPPENFIELD
380	POLITICAL PARTIES		04.0 CR		
	PREREQ	GOVT 231 CR 232			
1	09.00	MT THF	MAIN	310	KAHN
2	03.00	MTW	LAWSON	101	JACKSON
	03.00	TH	WHAM	308	
398	GOVERNMENT AND LAW		04.0 CR		
	PREREQ	GOVT 231			
1	10.00	MT THF	PARK	111	ISAKOFF
415A	POLITICAL BEHAVIOR		03.0 CR		
1	03.00	M W F	WHAM	208	MILLER
430	GOVT NATL SEC		03.0 CR		
	PREREQ	GOVT 231 CR CONSENT OF INSTRUCTOR			
1	03.00	M WTH	WHAM	228	HANSON
450A	LATIN-AMERICAN GOVT		04.0 CR		



1	01.00	MTW F	WHAM	203	GARNER
453A	GOVT POL-SOV UNION		04.0 CR		
1	10.00	MTWTH	WHAM	328	CHOU
455	GOVTS-WEST-CENT EUR		04.0 CR		
	PREREQ GSB 390	CONSENT OF INSTRUCTOR			
1	01.00	MTW F	WHAM	201	KAMARASY
457B	GOVT NEAR MID EAST		04.0 CR		
1	01.00	MT THF	WHAM	202	ABBASS
458A	GOVT + POL OF ASIA		04.0 CR		
1	09.00	MTWTH	CL	326	JACOBINI
459	POL-DEVELOPING AREA		04.0 CR		
	PREREQ GSB 390	CR CONSENT OF INSTRUCTOR			
1	11.00	MTWTH	WHAM	328	HARDENBERGH
463	GOVT SOC + ECON POL		03.0 CR		
	PREREQ GSB 211B	CR CONSENT OF INSTRUCTOR			
1	11.00	M W F	WHAM	137	RIDGEWAY
464	REGULATORY ADMIN		03.0 CR		
	PREREQ GOVT 360	CR CONSENT OF INSTRUCTOR			
1	01.00	M W F	CL	326	GOODSELL
467	MUN GOVT AND ADMIN		04.0 CR		
	PREREQ GOVT 232				
1	11.00	TWTHF	WHAM	201	BAKER
472	INTERNATIONAL ORGAN		04.0 CR		
	PREREQ GSB 303				
1	12.00	MT THF	WHAM	201	ABBASS
475A	INTERNATIONAL LAW		04.0 CR		
1	08.00	MTWTH	CL	326	JACOBINI
478	INTERNATL POLITICS		04.0 CR		
	PREREQ GSB 303	CR CONSENT OF INSTRUCTOR			
1	01.00-02.50	T TH	PULL	43A	LANDECKER
488A	REC POLIT THEORY		03.0 CR		
1	09.00-11.30		S WHAM	201	MORTON
495A	CONSTITUTIONAL LAW		04.0 CR		
1	09.00	MT THF	WHAM	201	NELSON
505	SEM IN POL PARTIES		02.0 TO 09.0 CR		
	PREREQ GOVT 380,420,	OR CONSENT OF INSTRUCTOR			
1	06.30-09.30 PM	TH	CL	326	KAHN
508	SEM-INTERNAL REL		02.0 TO 09.0 CR		
	PREREQ GOVT 370,472 OR 475	OR CONSENT OF INSTRUCTOR			
1	03.00-04.50	T TH	CL	326	LEVINE
512	SEMINAR PUB ADMIN		04.0 CR		
	PREREQ GOVT 360	CR CONSENT OF INSTRUCTOR			
1	10.00-11.50	T TH	CL	326	STAUBER
515	SEM-COMPARATIVE GOV		04.0 CR		
1	01.00-02.50	T TH	CL	326	HARDENBERGH
517	SEM PROB POL THEORY		04.0 CR		
	PREREQ GOVT 360	CR CONSENT OF INSTRUCTOR			
1	07.00-10.00 PM	W	CL	326	MORTON
520	SEM AMER FOR POLICY		04.0 CR		
	PREREQ GOVT 371	CR CONSENT OF INSTRUCTOR			
1	10.00-11.50	M W	CL	326	KLINGBERG
521	READINGS		01.0 TO 12.0 CR		
	PREREQ CONSENT CF INSTRUCTOR				
1	TO BE ARRANGED				KLINGBERG
530	INTERNSP PUB AFF		04.0 TO 12.0 CR		
	PREREQ CONSENT CF DEPARTMENT				
1	TO BE ARRANGED				SAPPENFIELD
582	LAW AND CORRECTIONS		04.0 CR		
	PREREQ CONSENT CF INSTRUCTOR				
1	07.00-10.00 PM	TH	0685	1A	DREHER
595	INDIVIDUAL RESEARCH		02.0 TO 12.0 CR		
	PREREQ GOVT 499	CR CONSENT OF INSTRUCTOR			
1	TO BE ARRANGED				KLINGBERG
599	THESIS		02.0 TO 09.0 CR		
	PREREQ GOVT 499	CR CONSENT OF INSTRUCTOR			
1	TO BE ARRANGED				KLINGBERG
600	DISSERTATION		01.0 TO 48.0 CR		
	PREREQ MIN OF 36 HRS	TO BE EARNED FOR DOC OF PHIL DEGREE			
1	TO BE ARRANGED				KLINGBERG

### Guidance and Educational Psychology (GUID)

305	EDUC PSYCHOLOGY	04.0 CR
	PREREQ GSB 201C	

1	08.00	TWTHF	WHAM	105	BLUMENFELD
2	11.00	M WTHF	LS I	133	BLUMENFELD
3	12.00	M WTHF	WHAM	105	BLUMENFELD
412	MENTAL HYGIENE		04.0 CR		
	PREREQ GUID 305				
1	06.00-09.00 PM	T	WHAM	302	YATES
422A	CONST-USE EVAL INST		04.0 CR		
	PREREQ GUID 305				
1	08.00-09.50	T TH	WHAM	202	BEGGS
2	02.00	MTWTH	LAWSON	121	DENZEL
3	06.00-09.00 PM	M	WHAM	302	
442	BASIC PRIN OF GUID		04.0 CR		
	PREREQ GUID 305				
1	06.00-09.00 PM	W	WHAM	302	DEWEESE
481	SEMINAR		02.0 TO 12.0 CR		
	PREREQ GUID 305 AND CONSENT OF INSTRUCTOR + DEPARTMENT				
1	TO BE ARRANGED				
501	SPEC RESEARCH PROB		02.0 TO 12.0 CR		
	PREREQ ADVANCED STANDING + CONSENT OF DEPARTMENT				
1	08.00-12.00	S	WHAM	205	
2	03.00-04.50	M W	AG	218	
505	INTR TO STAT METH		04.0 CR		
1	08.00	MTWTH	WHAM	319	
2	09.00-10.50	M W	WHAM	202	MOUW
3	10.00	M W	WHAM	317	
	10.00	T TH	WHAM	112	
4	01.00	MTWTH	WHAM	208	
5	03.00	MTWTH	WHAM	202	
6	06.00-09.00 PM	T	WHAM	328	LINDSEY
	PREREQUISITE OPEN TC PART TIME STUDENTS ONLY				
506	ADV STATISTICAL MET		04.0 CR		
	PREREQ GUID 505				
1	08.00-09.50	M W	WHAM	208	BEGGS
2	02.00-03.50	T TH	WHAM	326	MOUW
507	DES + ANAL OF EXPER		04.0 CR		
	PREREQ GUID 506				
1	01.00-02.50	M W	WHAM	328	BEGGS
511	ED IMPL OF LEARN TH		04.0 CR		
	PREREQ ADVANCED STANDING				
1	04.00-06.00	T TH	WHAM	326	
515	PSY ASPECTS OF ED		04.0 CR		
	PREREQ ADVANCED STANDING				
1	04.00-06.00	M W	LAWSON	121	MILES
521A	ANAL-CLASSRM BEHAV		04.0 CR		
	PREREQ GUID 305				
1	07.00-09.00 PM	M W	LAWSON	121	SULZER
530	STANDARDIZED TEST		04.0 CR		
	PREREQ GUID 505				
1	03.00-04.50	M F	WHAM	317	BRADLEY
532A	INDIV MEAS THEORY		04.0 CR		
	PREREQ GUID 505 AND CONSENT OF INSTRUCTOR				
1	TO BE ARRANGED				AMBLE
537A	COUNSEL THEOR--PRAC		04.0 CR		
	PREREQ CONSENT CF DEPARTMENT				
1	04.00-07.00	W	WHAM	321	ALTEKRUSE
543	GUID THROUGH GROUPS		04.0 CR		
	PREREQ GUID 442				
1	06.00-09.00 PM	TH	WHAM	302	MAYER
545M	SEM-PSYC FOUND - ED		04.0 CR		
1	10.00-11.50	M W	TECH A	122	CODY
548A	PRACT IN SEC GUID		02.0 TO 04.0 CR		
	PREREQ GUID 537 AND CONSENT OF INSTRUCTOR				
1	TO BE ARRANGED				
548D	PRAC IN SCHOOL PSYC		02.0 TO 08.0 CR		
	PREREQ CONSENT CF INSTRUCTOR				
1	TO BE ARRANGED				SULZER
562B	HUM DEV IN ED-ADOL		04.0 CR		
	PREREQ MAY BE TAKEN IN A,B SEQUENCE				
1	10.00-11.50	M F	WHAM	303	BRADLEY
567	TOP SEM-EDUC PSYC		02.0 TO 12.0 CR		
	PREREQ CONSENT CF INSTRUCTOR				
1	01.00-02.50	M W	WHAM	229	MAYER

568	TOP SEM-COUN + GUID	02.0 TO 12.0 CR			
	PREREQ CONSENT CF INSTRUCTOR				
1	TO BE ARRANGED			WEEK	
580	TOP SEM-STAT + MEAS	02.0 TO 12.0 CR			
	PREREQ INSTRUCTCRS PERMISSION				
1	01.00-02.50 T TH WHAM	328	MCNEIL		
581	INTERN-COUNS + GUID	01.0 TO 12.0 CR			
	PREREQ GUID 548C				
1	TO BE ARRANGED			ALTEKRUSE	
590	SEM - BEHAV FOUNDAT	02.0 CR			
	PREREQ FORMAL ADMISSION TO DOCTOR OF PHIL STUDIES				
1	10.00-11.50 W WHAM	301B	MC KENZIE		
596	INDEP INVESTIGATION	02.0 TO 12.0 CR			
	PREREQ INSTRUCTCRS PERMISSION				
1	TO BE ARRANGED				
597	INDEPENDENT STUDY	01.0 TO 12.0 CR			
	PREREQ CONSENT CF DEPARTMENT				
1	TO BE ARRANGED				
599	THESIS	03.0 TO 09.0 CR			
1	TO BE ARRANGED				
600	DISSERTATION	01.0 TO 48.0 CR			
1	TO BE ARRANGED				

### Health Education (H ED)

300	COMMUNICABLE DISEAS	03.0 CR			
	PREREQ H ED 305				
1	06.30-09.00 PM W	ARENA 121	CLARKE		
301	H ED CONCEPTS ADV	04.0 CR			
	PREREQ H ED 305				
1	09.00 MTWTH	ARENA 121	VINCENT		
302S	DRIVER-TRAFF SAFETY	04.0 CR			
	PREREQ A VALID DRIVERS LISENSE AND H ED 305				
1	08.00 MT THF	L-APS 136	AARON		
305	PRIN-FOUND H ED	04.0 CR			
1	10.00 MTWTH	L-APS 136	RUSSELL		
312	EMOTIONAL HEALTH	04.0 CR			
	PREREQ H ED 305				
1	11.00 MTWTH	ARENA 121	RICHARDSON		
313S	INTRO SAFETY EDUC	04.0 CR			
	PREREQ H ED 305				
1	09.00 MT THF	L-APS 136	BRIDGES		
323S	METH MAT SAFETY EDU	04.0 CR			
	PREREQ H ED 305				
1	01.00 MTWTH	L-APS 136	RITZEL		
325	COMM HEALTH PROB	03.0 CR			
	PREREQ H ED 305				
1	06.00-09.00 PM T	ARENA 121	MILLER		
334S	FIRST AID	04.0 CR			
	PREREQ H ED 305				
1	10.00 MTWTH	ARENA 119	SMELSER		
2	11.00 M WTHF	ARENA 119	BRIDGES		
3	12.00 M WTHF	ARENA 119	BRIDGES		
4	05.45-07.25 M W	ARENA 119	HARRIS		
350	METH MAT SCH HEALT	04.0 CR			
	PREREQ H ED 305				
1	02.00 MTWTH	ARENA 119	PHILLIPS		
356	PUBLIC HEALTH II	05.0 CR			
	PREREQ H ED 305				
1	TO BE ARRANGED		RICHARDSON		
442S	DRIV + TRAF SAFE ED	04.0 CR			
	PREREQ HED 302S				
1	08.00 MT THF	L-APS 136			
443S	DRIV + TRAF SAFE ED	04.0 CR			
	PREREQ H ED 302				
1	04.00-06.30 T	L-APS 136	AARON		
460	SCH HEALTH PROGRAMS	04.0 CR			
	PREREQ H ED 305				
1	09.00 MTWTH	ARENA 119	RUSSELL		
471	ORG AD SCH HEALTH	04.0 CR			
	PREREQ H ED 305				
1	06.30-09.00 PM T	ARENA 119	LEFEVRE		
475S	TRAFFIC LAW ENFORCE	04.0 CR			
	PREREQ H ED 433S CR CCNSENT OF INSTRUCTOR				



1	06.30-09.00 PM	W	L-APS	136	AARON
490	FLD WK SCH COMM HEA		02.0 TO 08.0 CR		
	PREREQ	RESTRICTED TO MAJORS IN DEPT			
1	TO BE ARRANGED				RICHARDSON
491	H TCH-SCHOOL + COMM		04.0 CR		
	PREREQ	H ED 305, 471 OR CONSENT OF INSTRUCTOR			
1	06.30-09.00 PM	M	ARENA	121	VINCENT
500	ORG COM FOR HTH ED		04.0 CR		
1	06.30-09.00 PM	W	ARENA	123	GRISSOM
520	SPECIAL PROJECTS		04.0 TO 06.0 CR		
1	TO BE ARRANGED				BOYDSTON
533A	HUMAN CONSERVATION		04.0 CR		
	PREREQ	PERMISSION OF INSTRUCTOR			
1	06.30-09.00 PM	TH	ARENA	119	GRISSOM
590	FIELD INTERNSHIP		04.0 TO 12.0 CR		
1	TO BE ARRANGED				GRISSOM
597A	SEMINAR		01.0 CR		
1	TO BE ARRANGED				BOYDSTON
597B	SEMINAR		01.0 CR		
1	TO BE ARRANGED				BOYDSTON
597C	SEMINAR		01.0 CR		
1	TO BE ARRANGED				BOYDSTON
599	THESIS		03.0 TO 09.0 CR		
1	TO BE ARRANGED				BOYDSTON
600	DISSERTATION		01.0 TO 48.0 CR		
	PREREQ	MUST MEET MINIMUM REQ OF 36 HRS FOR PH D DEGREE			
1	TO BE ARRANGED				BOYDSTON

### Higher Education (HIED)

402	PRIN COL STU PERSON		02.0 CR		
1	10.00-11.50	TH	WHAM	308	ZIMMERMAN
2	01.00-02.50	T	LAWSON	101	
3	07.30-09.20 PM	W	WHAM	308	ZIMMERMAN
510	HIGHER EDUC IN U S		04.0 CR		
1	04.00-05.40	M W	WHAM	206	MOORE
515	COL STUDENT PER WK		04.0 CR		
1	10.00-11.40	T	WHAM	205	GRAHAM
	10.00-11.40	F	WHAM	228	GRAHAM
518	COLLEGE TEACHING		04.0 CR		
1	06.30-09.15 PM	M	WHAM	210	MCKEEFERY
522	READINGS		01.0 TO 12.0 CR		
	PREREQ	CONSENT CF INSTRUCTOR			
1	TO BE ARRANGED				TOLLE
2	TO BE ARRANGED				GRAHAM
3	TO BE ARRANGED				MOORE
523A	INTERN-COLL TEACH		01.0 TO 12.0 CR		
	PREREQ	CONSENT CF DEPT			
1	TO BE ARRANGED				HILL
523B	INTERN-STUDENT PERS		01.0 TO 12.0 CR		
	PREREQ	CONSENT CF DEPT			
1	TO BE ARRANGED				GRAHAM
523C	INTERN-COLLEGE ADM		01.0 TO 12.0 CR		
	PREREQ	CONSENT CF DEPT			
1	TO BE ARRANGED				MOORE
523D	INTERNSHIP		01.0 TO 12.0 CR		
	PREREQ	CONSENT CF DEPT			
1	TO BE ARRANGED				JUNG
524	INDIVIDUAL STUDY		02.0 TO 06.0 CR		
	PREREQ	CONSENT CF INSTRUCTOR			
1	TO BE ARRANGED				TOLLE
2	TO BE ARRANGED				GRAHAM
3	TO BE ARRANGED				MOORE
535A	ED PRO STUDENT HSG		02.0 CR		
1	03.00-05.00	W	ABBOTT	129	ZIMMERMAN
535B	BUS AD STUDENT HSG		02.0 CR		
1	08.00-09.50	TH	WHAM	301A	ISBELL
535E	PROB IN CTR ADMIN		02.0 CR		
1	07.35-09.15 PM	W	WHAM	210	KING
565	COMMUNIT-JR COLLEGE		04.0 CR		
1	09.00-11.50	S	LAWSON	201	TOLLE
589	ADVANCED RESEARCH		04.0 TO 08.0 CR		
	PREREQ	CONSENT CF INSTRUCTOR			
1	TO BE ARRANGED				

595 HIED SEMINAR III 01.0 TO 12.0 CR  
 PREREQ CONSENT CF INSTRUCTOR  
 1 TO BE ARRANGED  
 599 THESIS 01.0 TO 09.0 CR  
 1 TO BE ARRANGED  
 600 DISSERTATION 01.0 TO 48.0 CR  
 PREREQ MINIMUM CF 36 HRS TO BE EARNED FOR DOCTOR OF PHIL  
 1 TO BE ARRANGED

# History (HIST)

304A	ANC WORLD-NEAR EAST		03.0 CR		
1	04.00	MT TH	MAIN	209	BREHM
308	HISTORY OF ILLINOIS		03.0 CR		
1	02.00	M WTH	MAIN	201	SIMON
309	NEGRO IN AMERICA		04.0 CR		
1	10.00	TWTHF	AG	166	FLADELAND
322A	ENG HIST-TO 1603		04.0 CR		
1	11.00	MT THF	MAIN	206	CHERRY
330	REVOLUTION + CONST		03.0 CR		
1	01.00	M W F	MAIN	206	AMMON
332A	MEDIEVAL HISTORY		03.0 CR		
1	02.00	MT TH	MAIN	206	BREHM
333A	EARLY MODERN EUROPE		03.0 CR		
1	10.00	M W F	MAIN	210	FALL
349A	PRE-COLONIAL AFRICA		03.0 CR		
1	02.00	T THF	LAWSON	221	BERBERICH
352A	LATIN AMER-COLONIAL		03.0 CR		
1	09.00	T THF	MAIN	206	WERLICH
365B	HIST CHINESE CIVIL		03.0 CR		
	PREREQ 6 HRS OF 300-LEVEL SOC SCIENCE		OR CONSENT OF INSTR		
1	08.00	M W F	MAIN	206	KUO
401A	HIST OF SOUTH-OLD		03.0 CR		
1	12.00	T THF	MAIN	207	MURPHY
403A	AMER ECONOMIC HIST		03.0 CR		
1	11.00	M W F	MAIN	207	CONRAD
405A	U.S. HIST 1850-1896		03.0 CR		
	PREREQ GSB 300B CR CONSENT OF THE INSTRUCTOR				
1	09.00	M W F	MAIN	210	ADAMS
406A	DIPL HIST OF EUROPE		03.0 CR		
1	10.00	M	MAIN	102A	CDAY
	10.00	T TH	MAIN	210	
409A	US CONSTITUT HIST		03.0 CR		
1	12.00	M W F	MAIN	102	CARRETT
410	SPECIAL READINGS		02.0 TO 05.0 CR		
1	TO BE ARRANGED				
411A	U S SOC-INT-TO 1830		03.0 CR		
1	11.00	M W F	MAIN	102A	ADAMS
414A	INTELLECTUAL-EUROPE		03.0 CR		
1	12.00	MT TH	MAIN	210	VYVERBERG
416A	MOD EUR RENAISSANCE		03.0 CR		
1	03.00	M W F	MAIN	102	
417A	ADV ENG HIST		03.0 CR		
1	09.00	M W F	MAIN	207	CHERRY
425A	AMER COLONIAL HIST		03.0 CR		
1	12.00	T THF	MAIN	206	BATINSKI
434A	SOC+POL EUR TO 1870		03.0 CR		
1	01.00	T THF	H EC	102	ZUCKER
435A	20TH CENT U.S. HIST		03.0 CR		
	PREREQ GSB 300C CR CONSENT OF INSTRUCTOR				
1	03.00	MT TH	MAIN	206	ALLEN
440A	AMER DIPLOMACY-1860		03.0 CR		
1	03.00	M W F	PHY SC	118	
442A	THE WEST--COLONIAL		03.0 CR		
1	01.00	M W F	MAIN	102A	CLIFFORD
452	RESEARCH + THESIS		03.0 CR		
1	10.00	M W F	MAIN	202	BATINSKI
463A	HISTORY OF FRANCE		03.0 CR		
	PREREQ 6 HRS OF 300 LEVEL SOC SCI		OR CCNSENT OF DEPARTMENT		
1	02.00	M W F	MAIN	210	HALL
464A	HISTORY OF GERMANY		03.0 CR		
1	11.00	M W F	MAIN	210	DETWILER
465A	TRAD RUSSIA TO 1905		03.0 CR		
1	10.00	M W F	MAIN	206	

471A	MEXICO--19TH CEN		03.0	CR	
1	01.00	M WTH	PARK	111	GOLD
475A	DICTATORSHIP-LTN AM		03.0	CR	
1	10.00	T THF	MAIN	209	WERLICH
498A	HISTORY HONORS		03.0	CR	
1	07.00-10.00 PM	T	WHAM	301A	CARRCTT
500A	SEMINAR-AMER HIST		04.0	TO 10.0	CR
1	03.00-04.40	M W	MAIN	202	AMMON
2	07.00-08.50 PM	T TH	H EC	122A	MURPHY
510	READING IN HISTORY		02.0	TO 10.0	CR
	PREREQ CONSENT OF DEPARTMENT				
1	TO BE ARRANGED				
512	STUDIES-MODERN EUR		03.0	CR	
	PREREQ HIST 430A AND B OR CONSENT OF INSTRUCTOR				
1	03.00-04.40	T TH	WHAM	301A	ZUCKER
515A	SEM 20TH CEN US HIS		03.0	CR	
1	07.30-09.00 PM	T TH	MAIN	202	ALLEN
516A	SEM IN EUROP HIST		03.0	TO 06.0	CR
	PREREQ PERMISSION OF INSTRUCTOR				
1	10.00-11.30	T TH	MAIN	202	VYVERBERG
553	NEW VWPTS IN AM H		03.0	CR	
	PREREQ GSB 300				
1	01.00-04.00	T	MAIN	202	FLADELAND
574	US-MEXICAN RELATION		03.0	CR	
1	02.00-05.00	TH	MAIN	202	GOLD
575A	STUDIES-LATIN AMER		03.0	CR	
1	03.00-05.00	M	WHAM	301A	GARDINER
599	THESIS		01.0	TO 09.0	CR
1	TO BE ARRANGED				

#### Home and Family (H & F)

227	FAMILY LIVING		03.0	CR	
1	10.00	M W F	H EC	203	
2	02.00	M W	H EC	140B	
	02.00		F	H EC	203
3	02.00	M W	H EC	140B	
	02.00		TH	H EC	206
4	02.00	M W	H EC	140B	
	02.00	T	H EC	206	
5	06.00-07.25 PM	M W	H EC	203	
237	CHILD DEVELOPMENT		03.0	CR	
1	09.00	M W	H EC	140B	ZUNICH
	09.00		F	H EC	120
2	09.00	M W	H EC	140B	ZUNICH
	09.00	T	H EC	203	
3	09.00	M W	H EC	140B	ZUNICH
	09.00		TH	H EC	120
4	09.00	M W	H EC	140B	ZUNICH
	09.00		TH	H EC	118
5	07.30-09.00 PM	T TH	H EC	203	ZUNICH
300	HOME EC FOR MEN		03.0	CR	
1	11.00	M W	H EC	140B	HEISLER
	11.00		F	H EC	102
2	11.00	M W	H EC	140B	HEISLER
	11.00		TH	H EC	203
3	11.00	M W	H EC	140B	HEISLER
	11.00		S	H EC	203
4	11.00	M W	H EC	140B	HEISLER
	12.00		TH	H EC	140B
301	H ARTS + SOC USAGE		03.0	CR	
1	03.00	T THF	H EC	206	HEISLER
323	HOUSING		02.0	CR	
1	10.00	T	H EC	140B	CRAIG
	09.00-10.50		TH	H EC	102
2	10.00	T	H EC	140B	CRAIG
	09.00-10.50		F	H EC	5
3	10.00	T	H EC	140B	CRAIG
	12.00-01.50	M	H EC	5	
331	MGT OF FAMILY RES		03.0	CR	
1	11.00	T TH	H EC	140B	CRAIG
	11.00		F	H EC	5
2	11.00	T TH	H EC	140B	CRAIG
	09.00		TH	H EC	5



3	11.00	T TH	H EC	140B	CRAIG
	01.00	F	H EC	5	MALONE
4	11.00	T TH	H EC	140B	CRAIG
	04.00	W	H EC	5	MALONE
332	HOME MGT RESIDENCE			04.0	CR
	PREREQ H+F 227,331				
1	TO BE ARRANGED				MALONE
340	CONSUMERS + MARKET			03.0	CR
1	09.00	M W F	H EC	203	CRAIG
345B	CHILD DEV PRACTICUM			03.0	CR
1	04.00	W	H EC	203	PONTON
	3 CONSECUTIVE HOURS 9-12 OR 1-4 M-F TBA				
471	FIELD EXPERIENCE			02.0 TO 06.0	CR
	PREREQ CONSENT OF DEPARTMENTAL CHAIRMAN				
1	TO BE ARRANGED				
481	READINGS			02.0 TO 06.0	CR
	PREREQ CONSENT OF INSTRUCTOR AND CHAIRMAN				
1	TO BE ARRANGED				
540	CONSUMER PROBLEMS			04.0	CR
	PREREQ 341 OR EQUIVALENT				
1	06.30-09.00 PM	M	H EC	5	JOHNSTON
572	SPECIAL PROBLEMS			02.0 TO 08.0	CR
1	TO BE ARRANGED				
599	THESIS			05.0 TO 09.0	CR
1	TO BE ARRANGED JOHNSTON				

#### Home Economics (H EC)

387	SPEC PROB-HONORS			02.0 TO 08.0	CR
1	TO BE ARRANGED				
388	RES + INVESTIGATION			02.0 TO 08.0	CR
1	TO BE ARRANGED				

#### Home Economics Education (HEED)

111	HOME EC ORIENTATION			02.0	CR
1	04.00	T TH	H EC	140B	BUBNAS
	12.00	TH	H EC	102	
2	04.00	T TH	H EC	140B	BUBNAS
	04.00	W	H EC	120	FILBECK
3	04.00	T TH	H EC	140B	BUBNAS
	04.00	F	H EC	120	
	FROSH + SOPH ONLY TRANSFER + JR + SR REGISTER FOR 306				
306	SEMINAR READINGS			02.0	CR
1	02.00	T TH	H EC	203	KEENAN
309B	METHODS OF TEACHING			03.0	CR
	PREREQ 309A				
1	08.00	M W F	H EC	120	
310	EVAL AND ADULT EDUC			04.0	CR
	PREREQ 309 AND S ED 352 CONCURRENTLY				
1	TO BE ARRANGED FILBECK				
313	SPECIAL PROBLEMS			02.0 TO 04.0	CR
	PREREQ 309				
1	TO BE ARRANGED FULTS				
415	INTRO TO GRAD STUDY			01.0	CR
1	08.00	TH	H EC	120	FULTS
481	READINGS			02.0 TO 06.0	CR
	PREREQ CONSENT OF INSTRUCTOR AND CHAIRMAN OF DEPARTMENT				
1	TO BE ARRANGED FULTS				
500	RESEARCH METHODS			04.0	CR
	PREREQ GUID 422B CR CCNSENT OF INSTRUCTOR				
1	06.00-08.30 PM	T	H EC	133	FULTS
510	SUPERVISION OF H EC			04.0	CR
1	08.30-11.00	S	H EC	120	
572	SPECIAL PROBLEMS			02.0 TO 08.0	CR
1	TO BE ARRANGED KEENAN				
573	SEM-RES IN HOME EC			01.0	CR
	PREREQ CONSENT OF INSTRUCTOR				
1	03.00	F	H EC	133	KEENAN
599	THESIS			05.0 TO 09.0	CR
1	TO BE ARRANGED				
600	DISSERTATION			03.0 TO 16.0	CR
1	TO BE ARRANGED				

# Industrial Technology (IT)

100	ORIENTATION			02.0 CR
1	04.00	T TH	TECH A	111
300A	PLASTIC PROCESS			04.0 CR
	PREREQ GSA 101B			
1	06.00-08.50 PM	W	TECH A	111
	08.00-09.50	TH	TECH D	14B
2	06.00-08.50 PM	W	TECH A	111
	08.00-09.50	S	TECH D	14B
3	06.00-08.50 PM	W	TECH A	111
	01.00-02.50	T	TECH D	14B
4	06.00-08.50 PM	W	TECH A	111
	03.00-04.50	TH	TECH D	14B
5	06.00-08.50 PM	W	TECH A	111
	03.00-04.50	M	TECH D	14B
304A	ARCHITECTURAL DES			03.0 CR
	PREREQ ONE COURSE IN HIGH SCHOOL DRAFTING			
1	06.00 PM	T TH	TECH A	111
	07.00-08.50 PM	T TH	TECH A	219
2	06.00 PM	T TH	TECH A	111
	07.00-08.50 PM	T TH	TECH A	207
3	06.00 PM	T TH	TECH A	111
	07.00-08.50 PM	T TH	TECH A	221
305A	DESIGN ILLUSTRATION			03.0 CR
	PREREQ E T 102B			
1	04.00	T TH	TECH A	210
	10.00-11.50	S	TECH A	307
2	04.00	T TH	TECH A	210
	01.00-02.50	TH	TECH A	307
306A	INDUSTRIAL DESIGN			03.0 CR
	PREREQ IT 305B CONCURRENT			
1	11.00	T TH	TECH A	220
	08.00-09.50	TH	TECH A	307
2	11.00	T TH	TECH A	220
	08.00-09.50	F	TECH A	307
307	ANAL PROB IN TECH			05.0 CR
	PREREQ MATH 111A, B			
1	01.00	MTWTHF	TECH A	208
314	METAL CASTING PROC			03.0 CR
	PREREQ MATH 111A CR EQUIVALENT			
1	10.00	M W	TECH A	111
	08.00-09.50	F	TECH D	14B
2	10.00	M W	TECH A	111
	11.00-12.50	F	TECH D	14B
3	10.00	M W	TECH A	111
	10.00-11.50	S	TECH D	14B
4	10.00	M W	TECH A	111
	06.00-07.50 PM	TH	TECH D	14B
5	10.00	M W	TECH A	111
	03.00-04.50	F	TECH D	14B
318	MATERIALS JOINING			03.0 CR
1	12.00	T TH	TECH A	222
	06.00-07.50 PM	T	TECH D	14B
2	12.00	T TH	TECH A	222
	10.00-11.50	TH	TECH D	14B
3	12.00	T TH	TECH A	222
	10.00-11.50	W	TECH D	14B
319	INDUSTRIAL INTERN			03.0 TO 24.0 CR
	PREREQ CONSENT OF INSTRUCTOR			
1	TO BE ARRANGED			
325A	METAL REMOV PROCESS			03.0 CR
	PREREQ MATH 111A			
1	12.00	M W	TECH A	111
	08.00-09.50	T	TECH D	14B
2	12.00	M W	TECH A	111
	10.00-11.50	M	TECH D	14B
3	12.00	M W	TECH A	111
	06.00-07.50 PM	M	TECH D	14B
4	12.00	M W	TECH A	310
	01.00-02.50	TH	TECH D	14B
5	12.00	M W	TECH A	310
	01.00-02.50	F	TECH D	14B

335	METAL + HEAT TREAT		03.0 CR	
	PREREQ MATH 111A			
1	09.00	M W	TECH A	122
	10.00-11.50	T	TECH D	14B
2	09.00	M W	TECH A	122
	03.00-04.50	T	TECH D	14B
341	MAINTENANCE		03.0 CR	
1	03.00	M W F	TECH A	220
342	INDUSTRIAL FINISHES		03.0 CR	
1	02.00	M W F	TECH A	222
343A	ELECT ELECTRONICS		03.0 CR	
1	04.00	M W	TECH A	111
	10.00-11.50	TH	TECH D	104
2	04.00	M W	TECH A	111
	10.00-11.50	TH	TECH D	104
3	04.00	M W	TECH A	111
	01.00-02.50	M	TECH D	104
351A	PRODUCT CONTROL		03.0 CR	
	PREREQ JUNIOR STANDING			
1	11.00	M W F	TECH A	208

### Instructional Materials (I M)

308	INTRO TO CATALOGING		04.0 CR	
1	11.00	MTWTH	PULL	3100 MATTHEWS
2	12.00	MTWTH	PULL	3100 MATTHEWS
403	SCH LIB FUN MGT		04.0 CR	
1	08.00	MTWTH	PULL	318 CCX
405	LIB MAT FOR CHILD		04.0 CR	
1	11.00	MTWTH	PULL	320 FLETCHER
406	ADOL LIB MATERIALS		04.0 CR	
1	08.00	MTWTH	PULL	320 FLETCHER
407	BASIC REF SOURCES		04.0 CR	
1	10.00	MTWTH	PULL	310 COX
417	A-V METH IN EDUC		04.0 CR	
1	08.00	MTWTH	LAWSON	121 HEAVILAND
2	09.00	TWTHF	PULL	318 MOORE
3	09.00-11.30	S	PULL	318 MOORE
4	10.00	MTWTH	PULL	318 INGLI
5	11.00	TWTHF	PULL	318 EDWARDS
6	01.00	TWTHF	LAWSON	121 EDWARDS
7	01.00	MTWTH	PULL	318 INGLI
8	02.00	MTWTH	PULL	318 WENDT
9	04.00	MTWTH	PULL	318 PLANINC
10	05.45-07.25	T TH	PULL	318 CUHASEK
11	05.45-07.25	M W	PULL	318 PLANINC
12	07.35-09.00 PM	T TH	PULL	318 MCORE
13	07.35-09.00 PM	M W	PULL	318
420	SCH LIB ACT-PRACT		04.0 CR	
	PREREQ 308, 403, 405, OR 406, 407			
1	10.00	MTWTH	PULL	320 FLETCHER
440	PHOTOG FOR TEACHERS		02.0 CR	
1	03.00	M W	PULL	310 BUTTS
445	PREP TEACH-MADE MAT		04.0 CR	
	PREREQ 417 OR CONSENT OF INSTRUCTOR			
1	08.00-09.50	TWTHF	PULL	305 EDWARDS
448	ADMIN OF A-V PROG		04.0 CR	
	PREREQ 417 OR CCNSENT OF INSTRUCTOR			
1	09.00	MTWTH	WOODY	320 INGLI
510	MASS COMM IN EDUC		04.0 CR	
1	06.30-09.00 PM	M	PULL	310 BUTTS
514	SUR-RES + DEV IN IM		04.0 CR	
	PREREQ 405, 406, 417 CR CONSENT OF INSTRUCTOR			
1	04.00	MTWTH	WOODY	1012 CALE+WENDT
530	HIST BKS AND LIB		04.0 CR	
1	12.00	MTWTH	WOODY	320 CALE
547	SCH FILM PRODUCTION		04.0 CR	
	PREREQ 417 AND 440 OR CONSENT OF INSTRUCTOR			
1	01.00-02.50	MTWTH	PULL	310 BUTTS
549	VISUAL LEARNING		04.0 CR	
	PREREQ CONSENT OF INSTRUCTOR			
1	06.30-09.00 PM	W	WOODY	320 WENDT
560	SEMINAR IN IM		04.0 CR	
	PREREQ CONSENT OF INSTRUCTOR			



1	03.00	MTWTH	WOODY	320	CALE
576	PROB INST MAT	02.0 TO 08.0	CR		
	PREREQ	CONSENT OF INSTRUCTOR			
1	TO BE ARRANGED				
599	THESIS	05.0 TO 09.0	CR		
1	TO BE ARRANGED				
600	DISSERTATION	01.0 TO 48.0	CR		
1	TO BE ARRANGED				
<b>Journalism (JRNL)</b>					
101	INTRO TO JOURN I		03.0	CR	
1	08.00	M W F	LAWSON	231	CLAYTON
102	INTRO TO JOURN II		03.0	CR	
1	11.00	M W F	WHAM	308	CLAYTON
203	THE NEWS		03.0	CR	
1	10.00	M W	0834	101	
	10.00-11.50		F	0834	101
2	11.00	T TH	0834	101	
	02.00-03.50		TH	0834	101
3	12.00	M W	WOODY	1012	
	12.00-01.50		F	WOODY	1012
301	NEWSWRIT EDIT I		03.0	CR	
1	08.00	W	AG	216	GROTTA
	ADDITIONAL HRS TBA				
2	08.00	W	AG	216	GROTTA
	ADDITIONAL HRS TBA				
3	08.00	W	AG	216	GROTTA
	ADDITIONAL HRS TBA				
4	08.00	W	AG	216	GROTTA
	ADDITIONAL HRS TBA				
302	NEWSWRIT EDIT II		03.0	CR	
1	10.00	M W	WOODY	1012	GRANATO
	10.00-11.50		F	WOODY	1012
2	12.00	T TH	0834	101	
	12.00-01.50		F	0834	101
3	04.00	M W	0834	101	
	03.00-04.50		F	0834	101
303	NEWS + EDIT III		03.0	CR	
1	11.00	M	0834	101	HIX
	TO BE ARRANGED				
2	11.00	W	0834	101	
	TO BE ARRANGED				
310	RADIO TV NEWS		03.0	CR	
	PREREQ JRNL 103, 201, 202 AND 303				
1	01.00	M W F	COMM	110	DUGAS
	CROSSLISTED WITH R-T 310				
330	EDITORIAL WRITING		03.0	CR	
1	11.00	M W F	AG	218	
346	COMPARATIVE JOURN		03.0	CR	
1	11.00	M W F	MAIN	301	
350	COMMUNITY NEWSPAPER		03.0	CR	
1	01.00	M WTH	AG	218	
369	MAG WRITING		03.0	CR	
	PREREQ 103, 201, 202				
1	02.00	M W F	0834	101	
370	PRIN OF ADVERTISING		03.0	CR	
	PREREQ ECON 205				
1	09.00	M W F	LAWSON	101	
371	ADVERTISING SALES		03.0	CR	
	PREREQ 370				
1	03.00	M W F	0834	1012	
372	AD COPY LAYOUT PROD		05.0	CR	
1	09.00	M W F	WOODY	1012	
	09.00-10.50	T TH	WOODY	1012	
373	ADV MEDIA + MARKETS		03.0	CR	
	PREREQ 370				
1	11.00	M	AG	154	
	11.00	W	PARK	111	
	11.00	F	BAILEY	130	
376	ADVER CAMPAIGNS		04.0	CR	
	PREREQ CONSENT OF INSTRUCTOR				
1	04.00	TH	0834	101	
	ADDITIONAL HRS TO BE ARRANGED				

383A	NP PROD MANAGEMENT		03.0 CR		
1	09.00	T TH S	0834	101	BROWN
2	11.00	M WTH	WOODY	1012	
383B	NP PROD MANAGEMENT		03.0 CR		
1	08.00	M W F	WOODY	1012	
2	09.00	M W F	0834	101	BROWN
385	RADIO-TV SPEC EVENT	01.0	TO 04.0	CR	
1	12.00	M	COMM	144	BROWN
390	ADVANCED REPORTING		03.0 CR		
1	10.00	T TH S	0834	101	STARCK
391	FEATURE WRITING		03.0 CR		
1	11.00	T TH S	AG	218	
393	PUBLICITY METHODS		03.0 CR		
1	TO BE ARRANGED				CLAYTON
395	INTR-MASS COMM THEO		03.0 CR		
	PREREQ SENIOR STANDING				
1	10.00	M W F	PHY SC	116	ATWOOD
399	SENIOR SEMINAR		01.0 CR		
1	12.00	M	WOODY	1012	FRAZER
431	PUBLIC RELATIONS		03.0 CR		
1	TO BE ARRANGED				LAWHCRNE
433A	RES THEORY + DESIGN		03.0 CR		
1	12.00	M W F	AG	218	RUCKER
	01.00-02.50	T	AG	101	
442	LAW OF JOURNALISM		03.0 CR		
1	09.00	M W F	ARENA	123	LAWHCRNE
449	PRACTICUM	02.0	TO 08.0	CR	
1	TO BE ARRANGED				LONG
501	LITERATURE OF JRNL		03.0 CR		
1	07.00-09.50 PM	M	AG	218	LONG
533	RESEARCH PROB-JRNL	01.0	TO 04.0	CR	
1	TO BE ARRANGED				RUCKER
545	STUDIES IN JRNL HIS		03.0 CR		
1	03.00-04.50	T TH	AG	218	HART
595	GRADUATE SEMINAR		00.0 CR		
1	TO BE ARRANGED				RUCKER
599	THESIS	01.0	TO 08.0	CR	
1	TO BE ARRANGED				RUCKER
600	DISSERTATION	01.0	TO 18.0	CR	
1	TO BE ARRANGED				RUCKER

### Management (MGT)

271	BUSINESS WRITING		04.0 CR		
	PREREQ GSD 101				
1	10.00	MT THF	MAIN	102	
340	BUS-ORG AND MGT		04.0 CR		
	PREREQ GSB 201B AND C, OR EQUIVALENT-JR STANDING OR CONSENT				
1	TO BE ARRANGED				
2	TO BE ARRANGED				
3	TO BE ARRANGED				
345	INF SYST-COMP FUND		04.0 CR		
	PREREQ ACCT 261, MGT 340 OR FIN 320 OR MKT 301, OR CONSENT				
1	10.00-11.50	T	LAWSON	101	
	10.00-11.50	TH	AG	188	
361	RESEARCH IN BUS ADM		04.0 CR		
	PREREQ MGT 340, GSD 102, 103, GSD 110 OR EQUIV OR CONSENT				
1	08.00-09.50	T TH	FELTS	130	
2	10.00-11.50	W F	ABBOTT	129	
3	12.00-01.50	T TH	CL	24	
4	02.00-03.50	W F	AG	188	
380	PRODUCTION MGT		04.0 CR		
	PREREQ MGT 340, 345, MATH 150A OR EQUIV. OR CONSENT OF INST				
1	08.00-09.50	T TH	AG	216	
2	12.00-01.50	T TH	LS I	16	
382	PERF STAND+METH IMP		04.0 CR		
	PREREQ MGT 340 CR CONSENT OF INSTRUCTOR				
1	12.00-01.50	M W	PULL	38	
385	PERSONNEL MGT		04.0 CR		
	PREREQ MGT 340, GSD 110 OR EQUIVALENT, OR CONSENT OF INSTR				
1	08.00-09.50	M	H EC	206	
	08.00-09.50	W	LAWSON	201	
2	03.00-04.50	M W	LAWSON	201	

430	ORGANIZ BEHAVIOR I			04.0 CR
	PREREQ	MGT 340, GSD 110	OR EQUIVALENT, CR	CONSENT OF INSTR
1	10.00-11.50	M	ABBOTT	129
	10.00-11.50	W	WHAM	303
2	01.00-02.50	W	WHAM	321
	01.00-02.50	F	WHLR	113
440	THE MGT PROCESS			04.0 CR
	PREREQ	MBA STUDENT		
1	TO BE ARRANGED			
451	METH OF QUANT ANAL			04.0 CR
	PREREQ	MBA STUDENT OR	CONSENT OF INSTRUCTOR	
1	10.00-11.50	T	LAWSON	231
	10.00-11.50	TH	WHAM	205
2	03.00-04.50	T TH	MAIN	201
479	PROBS BUS AND ECON			04.0 CR
	PREREQ	340, ECON 215, 308	OR 408 OR EQUIV, MKTG 301	OR EQUIV
1	TO BE ARRANGED			
2	TO BE ARRANGED			
3	12.00-01.50	W	MAIN	310
	12.00-01.50	F	PULL	38
4	03.00-04.50	W F	MAIN	201
481	ADMINISTRATIVE POL			04.0 CR
	PREREQ	MGT 340, FIN 320, MKTG 301	OR EQUIV, + SR	STANDING
1	TO BE ARRANGED			
2	10.00-11.50	T TH	GYM	204
3	02.00-03.50	M	COMM	214
	02.00-03.50	F	WOODY	1010
4	02.00-03.50	T TH	GYM	204
485	PROBS PERS MGT			04.0 CR
	PREREQ	MGT 385, ECON 308	OR 408, MGT 361	
1	TO BE ARRANGED			
2	01.00-02.50	M W	PULL	41

### Marketing (MKTG)

301	MKTG FUNDAMENTALS			04.0 CR
	PREREQ	ECON 214, ACCT 251A		
1	11.00	M WTH	LAWSON	151
	11.00	T	LAWSON	171
326	QUANTITATIVE MKTG			04.0 CR
	PREREQ	301, GSD 1088 OR 1148		
1	03.00	MTWTH	COMM	112
335	INTERNATIONAL MKTG			04.0 CR
	PREREQ	MKTG 301		
1	09.00	MT THF	WHAM	112
2	11.00	MT THF	WHAM	308
341	TRANSPORTATION			04.0 CR
	PREREQ	MKTG 301, ECON 215		
1	08.00	T THF	WHAM	308
	08.00	W	MAIN	210
363	PROMOTIONAL CONCEPT			04.0 CR
	PREREQ	MKTG 301		
1	09.00	MT THF	LAWSON	201
2	11.00	MT THF	MAIN	310
390	MKTG RES + ANAL			04.0 CR
	PREREQ	MKTG 301, CNE CCURSE IN STATISTICS		
1	01.00	TWTHF	WOODY	1010
2	03.00	TWTHF	AG	116
401	PROB IN RETAILING			04.0 CR
	PREREQ	MKTG 363		
1	03.00	TWTHF	CL	24
438	SALES MANAGEMENT			04.0 CR
	PREREQ	MKTG 363		
1	10.00	T THF	TECH A	208
	10.00	W	TECH A	222
2	05.45-07.25	T TH	PULL	24
439	IND MARKETING MGMT			04.0 CR
	PREREQ	MKTG 363		
1	01.00	T THF	PULL	41
	01.00	W	COMM	111
452	PHYSICAL DIST MGT			04.0 CR
	PREREQ	MKTG 301, ECON 215		
1	08.00	TWTHF	COMM	112



2	10.00	W F	AG	224
	10.00	T TH	MAIN	207
463	ADVERTISING MANAG		04.0 CR	
	PREREQ	MKTG 363, MKTG 390		
1	10.00-11.50	M W	H EC	206
2	03.00-04.50	T TH	AG	224
493	MARKETING POLICIES		04.0 CR	
	PREREQ	ACCT 261, MKTG 363, 390, PLUS 4HRS IN MKTG, SENIOR		
1	03.00-04.50	M	H EC	206
	03.00-04.50	W	WHAM	319
499	UNDERGRAD SEM-MKTG		04.0 CR	
	PREREQ	BY INVITATION - 16 HOURS OF MKTG		
1	03.00-04.50	M W	AG	224

### Mathematics (MATH)

111A	COL ALGEBRA TRIG		05.0 CR	
	PREREQ	GSD 106 CR HS EQUIV		
1	08.00	MTWTHF	BROWN	130
2	08.00	TWTHFS	MAIN	201
3	08.00	MTWTH S	MAIN	301
4	08.00	MTWTHF	PHY SC	118
5	08.00	MTWTHF	MAIN	102A
6	09.00	W FS	LS I	205
	09.00	T TH	LS I	16
7	09.00	MTWTH S	AG	150
8	09.00	MT THFS	PARK	111
9	09.00	MTWTHF	AG	116
10	10.00	MTW FS	H EC	102
11	10.00	MTWTHF	BROWN	130
12	10.00	M W F	MAIN	301
	10.00	T TH	TECH A	320
13	10.00	M W	COMM	111
	10.00	T THF	PHY SC	118
14	10.00	TWTHFS	MAIN	102A
15	11.00	T TH S	MAIN	102A
	11.00	W F	MAIN	102
16	11.00	M W FS	AG	216
	11.00	T	PARK	111
17	11.00	MTWTHF	AG	116
18	11.00	MTWTHF	MAIN	302
19	12.00	MTWTHF	AG	214
20	12.00	MTWTHF	PHY SC	118
21	12.00	MTWTHF	MAIN	102A
22	12.00	MTWTHF	AG	116
23	12.00	M W F	COMM	120
	12.00	T TH	TECH A	220
24	01.00	MTWTHF	BROWN	130
25	01.00	MTWTHF	MAIN	301
26	01.00	M W F	PHY SC	116
	01.00	T TH	PHY SC	218
27	01.00	MTW F	AG	154
	01.00	TH	TECH A	222
28	02.00	MTWTHF	MAIN	309
29	02.00	MTWTHF	PARK	111
30	02.00	MTWTHF	TECH A	320
31	02.00	MTWTHF	MAIN	102A
32	03.00	MTWTHF	MAIN	209
33	03.00	MTWTHF	MAIN	102A
34	03.00	MTWTHF	BROWN	130
35	03.00	MTWTHF	MAIN	302
36	04.00	MTWTHF	TECH A	208
37	06.00-07.25 PM	M WTH	TECH A	220
38	06.00-07.25 PM	M WTH	TECH A	308
39	07.35-09.00 PM	M WTH	TECH A	220
40	07.35-09.00 PM	M WTH	TECH A	308
111B	COL ALGEBRA TRIG		05.0 CR	
	PREREQ	GSD 107B CR MATH 111A		
1	08.00	MTWTHF	TECH A	220
2	08.00	MTWTHF	TECH A	210
3	09.00	MTWTHF	BROWN	130
4	10.00	MTWTHF	H EC	118
5	11.00	MTWTHF	BROWN	130

6	11.00	M WTHF	ARENA	123
	11.00	T	TECH D	131
7	12.00	MTWTHF	ARENA	121
8	01.00	MTWTHF	TECH A	310
9	01.00	MTWTHF	AG	116
10	02.00	MTWTHF	TECH A	310
11	03.00	MTWTHF	ARENA	119
12	06.00-07.25 PM	M WTH	TECH A	210
13	07.35-09.00 PM	M WTH	TECH A	210
150A	ELEM CALC-ANAL GEOM		05.0	CR
	PREREQ MATH 111B			
1	08.00	MTWTHF	TECH A	320
2	09.00	MTWTHF	MAIN	102A
3	10.00	M W F	COMM	120
	10.00	T TH	TECH A	322
4	11.00	M W F	AG	168
	11.00	T TH	TECH A	322
5	12.00	MTWTHF	TECH A	208
6	01.00	MTWTHF	TECH A	210
7	02.00	MTWTHF	TECH A	220
8	03.00	MTWTHF	H EC	102
9	07.35-09.00 PM	M WTH	TECH A	322
150B	ELEM CALC-ANAL GEOM		05.0	CR
	PREREQ MATH 150A			
1	08.00	MTWTHF	TECH A	222
2	09.00	MTWTHF	PHY SC	116
3	10.00	MTWTHF	PHY SC	218
4	11.00	MTWTHF	PHY SC	218
5	12.00	MTWTHF	PHY SC	116
6	02.00	MTWTHF	TECH A	210
7	03.00	MTWTHF	ARENA	121
8	06.00-07.25 PM	M WTH	TECH A	322
159A	ELEM CALCULUS-HONOR		07.0	CR
	PREREQ CONSENT CF DEPT			
1	09.00	MTW F	AG	148
	09.00	TH	AG	220
159B	ELEM CALCULUS-HONOR		07.0	CR
	PREREQ CONSENT CF DEPT			
1	11.00	MTWTHF	TECH A	320
252A	INTER CALC-ANAL GEC		05.0	CR
	PREREQ MATH 150B			
1	09.00	MTWTHF	TECH D	131
2	10.00	MTWTHF	TECH A	220
3	12.00	MTWTHF	TECH A	210
4	03.00	MTWTHF	TECH A	310
252B	INTER CALC-ANAL GEC		04.0	CR
	PREREQ MATH 252A			
1	08.00	MT THF	TECH A	308
2	01.00	MTWTH	TECH A	320
3	03.00	TWTHF	MAIN	308
259A	INTER-CALCULUS-HON		07.0	CR
	PREREQ MATH 150B CR 159B AND CONSENT OF DEPT			
1	03.00	MTWTHF	PHY SC	116
259B	INTER-CALCULUS-HON		06.0	CR
	PREREQ MATH 259A			
1	01.00	MTWTHF	TECH A	120
301	FUNDAMENTAL CONCEPT		03.0	CR
	PREREQ MATH 150B			
1	09.00	M WTH	TECH A	210
2	11.00	M W F	TECH D	131
3	03.00	T TH	TECH A	322
	03.00	F	TECH A	320
305A	MATH PHYS SCIENCES		03.0	CR
	PREREQ MATH 252B			
1	08.00	M W F	TECH A	310
2	10.00	M W F	TECH A	320
3	12.00	T THF	TECH A	320
4	04.00	M W F	TECH A	320
310	TEACHING ELEM MATH		04.0	CR
	PREREQ GSD 108B			
1	08.00	MTWTH	WHAM	112
2	11.00	MTWTH	WHAM	228

3	02.00	M W	WHAM	329
	02.00	T TH	WHAM	112
4	04.00	MTWTH	WHAM	201
311	TEACH SEC MATH /P/			03.0 CR
	PREREQ 320A			
1	10.00	M W F	TECH A	322
319	INTR-ABSTRACT ALG			03.0 CR
	PREREQ MATH 301 CR CONSENT OF DEPT			
1	12.00	TW F	TECH A	322
2	04.00	M W F	TECH A	322
321	ELEM MATRIX ALGEBRA			03.0 CR
	PREREQ MATH 301 CR CONSENT OF DEPT			
1	09.00	T TH	TECH A	310
	09.00	F	TECH A	308
2	01.00	M WTH	TECH A	322
325	INTRO-NUMBER THEORY			03.0 CR
	PREREQ MATH 301 CR CONSENT			
1	02.00	M WTH	TECH D	131
335A	CONCEPTS OF GEOM			03.0 CR
	PREREQ MATH 252A			
1	03.00	MT TH	TECH A	320
352	INTRO TO ANALYSIS			03.0 CR
	PREREQ MATH 301 CR CONSENT OF DEPT			
1	09.00	M W	AG	224
	09.00	F	TECH A	210
395	READINGS IN MATH			02.0 TO 12.0 CR
	PREREQ CONSENT OF DEPT			
1	TO BE ARRANGED			
410A	STAT ANALYSIS			04.0 CR
	PREREQ GSD 108C			
1	10.00	M W F	PULL	38
	10.00-11.50	T	TECH A	310
2	10.00	M W F	PULL	38
	10.00-11.50	TH	TECH A	310
3	10.00	M W F	PULL	38
	10.00	TH	AG	224
SEC 3 RESTRICTED TO PSYCHOLOGY MAJORS				
421A	LINEAR ALGEBRA			03.0 CR
	PREREQ MATH 252B			
1	09.00	T TH	TECH A	220
	09.00	F	TECH A	222
2	01.00	M W F	AG	150
433A	INTRO TO TOPOLOGY			03.0 CR
	PREREQ MATH 301 CR CONSENT OF DEPT			
1	02.00	T THF	TECH A	322
452A	ADVANCED CALCULUS			03.0 CR
	PREREQ MATH 252B			
1	09.00	MTW F	TECH A	120
2	09.00	M WTHF	TECH A	322
455A	ADV MATH-PHYS SCI			03.0 CR
	PREREQ MATH 305 CR CONSENT OF INSTR			
1	12.00	MT TH	TECH D	131
475A	NUMERICAL ANALYSIS			03.0 CR
	PREREQ MATH 305A CR 252B AND CONSENT OF INSTR			
1	03.00	M W F	TECH A	210
480A	PROBABILITY			03.0 CR
	PREREQ MATH 252B			
1	10.00	M W F	TECH A	210
483A	INTRO MATH STAT			03.0 CR
	PREREQ MATH 252B			
1	11.00	M W F	TECH A	220
501A	REAL VARIABLES			03.0 CR
	PREREQ MATH 452C			
1	01.00	T THF	TECH A	220
505A	TH ORDIN DIFF EQUAT			03.0 CR
	PREREQ PREREQ 501B, 421A			
1	09.00	M W F	TECH B	20
520A	MODERN ALGEBRA			03.0 CR
	PREREQ 419 OR CCNSENT			
1	03.00	M W F	TECH A	322
522	ADV TOPICS-ALGEBRA			03.0 TO 18.0 CR
	PREREQ MATH 520B			



1	04.00	M W F	TECH B	20
528A	THEORY OF AUTOMATA		03.0 CR	
	PREREQ MATH 428B			
1	12.00	M W F	TECH A	222
530A	GENERAL TOPOLOGY		03.0 CR	
	PREREQ 433B OR CONSENT OF INSTRUCTOR			
1	02.00	T THF	TECH A	122
531A	ALGEBRAIC TOPOLOGY		03.0 CR	
	PREREQ MATH 520A AND 530A			
1	02.00	T THF	TECH B	20
532	ADV TOPICS TOPOLOGY		03.0 CR	
	PREREQ CONSENT CF DEPT			
1	01.00-02.50	M W	TECH B	20
552	ADV TOPICS-ANALYSIS		03.0 CR	
	PREREQ CONSENT CF DEPT			
1	09.00-10.50	T TH	TECH B	20
2	10.00-11.50	T TH	TECH A	210
555A	COMPLEX VARIABLES		03.0 CR	
	PREREQ MATH 452C			
1	11.00	M W F	TECH A	120
595A	SP PROJ ALGEBRA		02.0 TO 05.0 CR	
1	TO BE ARRANGED			
595B	SP PROJ GEOMETRY		02.0 TO 05.0 CR	
1	TO BE ARRANGED			
595C	SP PROJ ANALYSIS		02.0 TO 05.0 CR	
1	TO BE ARRANGED			
595D	SP PROJ PROB + STAT		02.0 TO 05.0 CR	
1	TO BE ARRANGED			
595E	SP PROJ MATH EDUC		02.0 TO 05.0 CR	
1	TO BE ARRANGED			
595F	SP PROJ LOGIC + FOL		02.0 TO 05.0 CR	
1	TO BE ARRANGED			
595G	SP PROJ TOPOLOGY		02.0 TO 05.0 CR	
1	TO BE ARRANGED			
599	THESIS		02.0 TO 06.0 CR	
1	TO BE ARRANGED			
600	DISSERTATION		03.0 TO 12.0 CR	
1	TO BE ARRANGED			

### Microbiology (MICR)

301	PRIN-MICROBIOLOGY		05.0 CR	
	PREREQ 1 YR OF COLLEGE CHEM + GSA 210A OR EQUIVALENT			
1	08.00	MTWTH	LS I	16 SHECHMEISTER
	09.00-10.50	M W	LS I	6
	08.00	F	LS I	6
2	08.00	MTWTH	LS I	16 SHECHMEISTER
	11.00-12.50	M W	LS I	6
	09.00	F	LS I	6
3	08.00	MTWTH	LS I	16 SHECHMEISTER
	01.00-02.50	M W	LS I	6
	12.00	F	LS I	6
4	08.00	MTWTH	LS I	16 SHECHMEISTER
	03.00-04.50	M W	LS I	6
	01.00	F	LS I	6
5	08.00	MTWTH	LS I	16 SHECHMEISTER
	06.00-07.50 PM	M W	LS I	6
	02.00	F	LS I	6
390	UNDERGRAD RES PART		02.0 TO 05.0 CR	
	PREREQ 4.00 GPA IN MICR AND/OR CONSENT OF DEPARTMENT			
1	TO BE ARRANGED			
403	MEDICAL BACTERIOLOG		05.0 CR	
	PREREQ 301 AND 302 OR EQUIVALENT			
1	02.00	MTW	LS I	323 MCCLARY
	08.00-09.50	T TH	LS I	6
	09.00	S	LS I	6
2	02.00	MTW	LS I	323 MCCLARY
	10.00-11.50	T TH	LS I	6
	10.00	S	LS I	6
425	BIOCHEM PHSL MICRO		03.0 CR	
	PREREQ 301 AND ORGANIC CHEMISTRY			
1	09.00	M W F	LS I	16 CGUR
426	BIOCHEM PHSL MICR		03.0 CR	
	PREREQ MICR 301 AND ORGANIC CHEMISTRY			

1	01.00-05.50	TH	LS I	8	
2	01.00-05.50	F	LS I	8	
462	FUNGAL GENETICS			03.0	CR
	PREREQ GSA 201A + B				
1	08.00	M W F	AG	148	GILMCRE
500	SEMINAR			01.0	CR
1	TO BE ARRANGED				
511	RESEARCH			01.0 TO 15.0	CR
1	TO BE ARRANGED				
528	READINGS IN MICRO			01.0 TO 10.0	CR
1	TO BE ARRANGED				
541	ADVANCED VIROLOGY			06.0	CR
1	10.00	MTW	LS I	16	ROUHANDEH
	02.00-04.50	T TH	LS I	6	
599	THESIS			03.0 TO 09.0	CR
1	TO BE ARRANGED				
600	DISSERTATION			03.0 TO 48.0	CR
1	TO BE ARRANGED				
<b>Music (MUS)</b>					
001A	MARCHING BAND			01.0 TO 02.0	CR
	PREREQ CONSENT CF INSTRUCTOR				
1	03.15-04.45	T THF	ALTG	114	KOENIGSTEIN
	07.00-09.00 PM M		ALTG	114	
001B	SYMPHONIC BAND			01.0	CR
	PREREQ CONSENT CF INSTRUCTOR				
1	02.00	M W F	ALTG	114	KOENIGSTEIN
001C	STAGE BAND			01.0	CR
	PREREQ AUDITION				
1	TO BE ARRANGED				STIMAN
2	TO BE ARRANGED				LEMASTERS
001E	WIND ENSEMBLE			01.0	CR
	PREREQ AUDITION				
1	02.00	T TH	ALTG	114	SIENER
002A	UNIVERSITY CHOIR			01.0	CR
	PREREQ AUDITION				
1	04.00-05.30	T TH	ALTG	115	KINGSBURY
002B	CHORUS DRATORIO			00.0 TO 01.0	CR
1	07.30-09.45 PM M		H EC	140B	KINGSBURY
2	07.30-09.45 PM M		ALTG	115	KINGSBURY
002C	MALE GLEE CLUB			01.0	CR
	PREREQ AUDITION				
1	08.00-09.30 PM	T TH	ALTG	115	KINGSBURY
002D	WOMEN-CHORAL ENSEM			01.0	CR
	PREREQ AUDITION				
1	03.00	M W	ALTG	115	TAYLOR
	03.00	F	ALTG	116	
003A	UNIVERSITY ORCHESTR			01.0	CR
	PREREQ CONSENT CF INSTRUCTOR				
1	03.00-04.30	M W F	ALTG	114	KARTMAN
003B	SOUTHERN ILL SYMPH			01.0	CR
	PREREQ CONSENT CF INSTRUCTOR				
1	03.00-04.30	M W F	ALTG	114	LEVINSON
010A	CLASS APP-STRINGS			01.0	CR
1	09.00	T TH	ALTG	114	COWLEY WHARTON
010B	CLASS APP-WOODWINDS			01.0	CR
1	08.00	T TH	OB F	205	RESNICK INTRAVAIA
010C	CLASS APP-BRASS			01.0	CR
1	11.00	T TH	ALTG	114	STIMAN LEMASTERS
010D	CLASS APP-PERCUSS			01.0	CR
1	10.00	T TH	ALTG	114	FLOYD
010E	CLASS APP-PIANO			01.0	CR
1	08.00	M F	ALTG	301	HARTLINE
	MML				
2	08.00	T TH	ALTG	301	BEDFORD
	KP1				
3	09.00	M F	ALTG	301	HARTLINE
	KP2				
4	09.00	T TH	ALTG	301	BEDFORD
	KP3				

5	10.00	T F	ALTG	301	HARTLINE
MM4					
6	10.00	M W	ALTG	301	BEDFCRD
KP1					
7	11.00	M F	ALTG	301	HARTLINE
MM1					
8	11.00	T TH	ALTG	301	BEDFCRD
KP3					
9	11.00	W S	ALTG	301	BEDFORD
KP3					
10	12.00	M W	ALTG	301	HARTLINE
MM1					
11	12.00	T F	ALTG	301	BEDFORD
MM6					
12	01.00	M W	ALTG	301	HARTLINE
MM5					
13	01.00	T F	ALTG	301	BEDFCRD
MM3					
14	02.00	M W	ALTG	301	HARTLINE
MM4					
15	02.00	T F	ALTG	301	BEDFCRD
MM5					
16	03.00	M W	ALTG	301	HARTLINE
KP1					
17	03.00	T F	ALTG	301	BEDFORD
KP2					
010F	CLASS APP-VOICE			01.0 CR	
1	10.00	T TH	ALTG	248	
2	01.00	T TH	ALTG	248	
105A	THEORY OF MUSIC			04.0 CR	
1	08.00	MTWTHF	ALTG	106	WEBB
2	08.00	MTWTHF	ALTG	116	BABER
3	08.00	MTWTHF	ALTG	248	HUSSEY
4	09.00	MTWTHF	ALTG	106	GRIZZELL
5	09.00	MTWTHF	ALTG	248	OLSSON
140A	PRIV APP MUS-VIOLIN			01.0 TO 04.0 CR	
	PREREQ MUS CONC	CR	SECNDARY CONC	OR	CONSENT OF MUS FACULTY
1	TO BE ARRANGED				LEVINSON
2	TO BE ARRANGED				KARTMAN
3	TO BE ARRANGED				WHARTON
140B	PRIV APP MUS-VIOLA			01.0 TO 04.0 CR	
	PREREQ MUS CONC	CR	SECNDARY CONC	OR	CONSENT OF MUS FACULTY
1	TO BE ARRANGED				BABER
140C	PRIV APP MUS-CELLO			01.0 TO 04.0 CR	
	PREREQ MUS CONC	CR	SECNDARY CONC	OR	CONSENT OF MUS FACULTY
1	TO BE ARRANGED				COWLEY
140D	PRIV APP MUS-STRING			01.0 TO 04.0 CR	
	PREREQ MUS CONC	CR	SECNDARY CONC	OR	CONSENT OF MUS FACULTY
1	TO BE ARRANGED				COWLEY
140E	PRIV APP MUS-FLUTE			01.0 TO 04.0 CR	
	PREREQ MUS CONC	CR	SECNDARY CONC	OR	CONSENT OF MUS FACULTY
1	TO BE ARRANGED				RESNICK
2	TO BE ARRANGED				BOTTJE
140F	PRIV APP MUS-OBOE			01.0 TO 04.0 CR	
	PREREQ MUS CONC	CR	SECNDARY CONC	OR	CONSENT OF MUS FACULTY
1	TO BE ARRANGED				HUSSEY
140G	PRIV APP MUS-CLAR			01.0 TO 04.0 CR	
	PREREQ MUS CONC	CR	SECNDARY CONC	OR	CONSENT OF MUS FACULTY
1	TO BE ARRANGED				RESNICK
2	TO BE ARRANGED				INTRAVAIA
140H	PRIV APP MUS-BASSON			01.0 TO 04.0 CR	
	PREREQ MUS CONC	CR	SECNDARY CONC	OR	CONSENT OF MUS FACULTY
1	TO BE ARRANGED				INTRAVAIA
140I	PRIV APP MUS-SAX			01.0 TO 04.0 CR	
	PREREQ MUS CONC	CR	SECNDARY CONC	OR	CONSENT OF MUS FACULTY
1	TO BE ARRANGED				RESNICK
2	TO BE ARRANGED				HUSSEY
140J	PRIV APP MUS-PERCUS			01.0 TO 04.0 CR	
	PREREQ MUS CONC	CR	SECNDARY CONC	OR	CONSENT OF MUS FACULTY
1	TO BE ARRANGED				FLOYE
140K	PRIV APP MUS-PIANO			01.0 TO 04.0 CR	
	PREREQ MUS CONC	CR	SECNDARY CONC	OR	CONSENT OF MUS FACULTY
1	TO BE ARRANGED				GRIZZELL



2	TO BE ARRANGED				CENKER
3	TO BE ARRANGED				BARWICK
4	TO BE ARRANGED				MUELLER
5	TO BE ARRANGED				WERNER
140L	PRIV APP MUS-F HORN	01.0 TO 04.0 CR			
	PREREQ MUS CONC OR	SECONDARY CONC OR			CONSENT OF MUS FACULTY
1	TO BE ARRANGED				NADAF
140M	PRIV APP MUS-TRUMP	01.0 TO 04.0 CR			
	PREREQ MUS CONC OR	SECONDARY CONC OR			CONSENT OF MUS FACULTY
1	TO BE ARRANGED				LEMASTERS
2	TO BE ARRANGED				CLSSON
140N	PRIV APP MUS-TRBONE	01.0 TO 04.0 CR			
	PREREQ MUS CONC OR	SECONDARY CONC OR			CONSENT OF MUS FACULTY
1	TO BE ARRANGED				STIMAN
140O	PRIV APP MUS-TUBA	01.0 TO 04.0 CR			
	PREREQ MUS CONC OR	SECONDARY CONC OR			CONSENT OF MUS FACULTY
1	TO BE ARRANGED				STIMAN
140P	PRIV APP MUS-BATONE	01.0 TO 04.0 CR			
	PREREQ MUS CONC OR	SECONDARY CONC OR			CONSENT OF MUS FACULTY
1	TO BE ARRANGED				STIMAN
140Q	PRIV APP MUS-VOICE	01.0 TO 04.0 CR			
	PREREQ MUS CONC OR	SECONDARY CONC OR			CONSENT OF MUS FACULTY
1	TO BE ARRANGED				WATERMAN
2	TO BE ARRANGED				TAYLOR
3	TO BE ARRANGED				LAWRENCE
4	TO BE ARRANGED				
140R	PRIV APP MUS-ORGAN	01.0 TO 04.0 CR			
	PREREQ MUS CONC OR	SECONDARY CONC OR			CONSENT OF MUS FACULTY
1	TO BE ARRANGED				WEBB
140S	PRIV APP MUS-HARPCB	01.0 TO 04.0 CR			
	PREREQ MUS CONC OR	SECONDARY CONC OR			CONSENT OF MUS FACULTY
1	TO BE ARRANGED				MORGAN
2	TO BE ARRANGED				BEDFORD
200	FUNDAMENTALS-MUSIC	03.0 CR			
1	02.00	M W F	ALTG	248	MCHUGH
2	03.00	M W F	ALTG	248	MCHUGH
205A	THEORY OF MUSIC	03.0 CR			
	PREREQ 105C				
1	11.00	MTWTHF	ALTG	106	DENKER
2	11.00	MTWTHF	ALTG	116	MUELLER
3	11.00	MTWTHF	ALTG	248	
240A	PRIV APP MUS-VIOLIN	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT	PREVIOUS LEVEL ON SAME INSTR OR			CONSENT
1	TO BE ARRANGED				LEVINSON
2	TO BE ARRANGED				KARTMAN
3	TO BE ARRANGED				WHARTON
240B	PRIV APP MUS-VIOLA	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT	PREVIOUS LEVEL ON SAME INSTR OR			CONSENT
1	TO BE ARRANGED				BABER
240C	PRIV APP MUS-CELLO	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT	PREVIOUS LEVEL ON SAME INSTR OR			CONSENT
1	TO BE ARRANGED				COWLEY
240D	PRIV APP MUS-STRING	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT	PREVIOUS LEVEL ON SAME INSTR OR			CONSENT
1	TO BE ARRANGED				COWLEY
240E	PRIV APP MUS-FLUTE	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT	PREVIOUS LEVEL ON SAME INSTR OR			CONSENT
1	TO BE ARRANGED				RESNICK
2	TO BE ARRANGED				BOTTJE
240F	PRIV APP MUS-OBOE	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT	PREVIOUS LEVEL ON SAME INSTR OR			CONSENT
1	TO BE ARRANGED				HUSSEY
240G	PRIV APP MUS-CLAR	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT	PREVIOUS LEVEL ON SAME INSTR OR			CONSENT
1	TO BE ARRANGED				RESNICK
2	TO BE ARRANGED				INTRAVIA
240H	PRIV APP MUS-BASSON	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT	PREVIOUS LEVEL ON SAME INSTR OR			CONSENT
1	TO BE ARRANGED				INTRAVIA
240I	PRIV APP MUS-SAX	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT	PREVIOUS LEVEL ON SAME INSTR OR			CONSENT
1	TO BE ARRANGED				RESNICK
2	TO BE ARRANGED				HUSSEY

240J	PRIV APP	MUS-PERCUS	01.0 TO 04.0 CR		
	PREREQ	3 QTRS AT	PREVIOUS LEVEL ON SAME INSTR OR CONSENT		
1	TO BE	ARRANGED			FLOYD
240K	PRIV APP	MUS-PIANO	01.0 TO 04.0 CR		
	PREREQ	3 QTRS AT	PREVIOUS LEVEL ON SAME INSTR OR CONSENT		
1	TO BE	ARRANGED			GRIZZELL
2	TO BE	ARRANGED			DENKER
3	TO BE	ARRANGED			BARWICK
4	TO BE	ARRANGED			MUELLER
5	TO BE	ARRANGED			WERNER
240L	PRIV APP	MUS-F HORN	01.0 TO 04.0 CR		
	PREREQ	3 QTRS AT	PREVIOUS LEVEL ON SAME INSTR OR CONSENT		
1	TO BE	ARRANGED			NADAF
240M	PRIV APP	MUS-TRUMP	01.0 TO 04.0 CR		
	PREREQ	3 QTRS AT	PREVIOUS LEVEL ON SAME INSTR OR CONSENT		
1	TO BE	ARRANGED			LEMASTERS
2	TO BE	ARRANGED			OLSSON
240N	PRIV APP	MUS-TRBONE	01.0 TO 04.0 CR		
	PREREQ	3 QTRS AT	PREVIOUS LEVEL ON SAME INSTR OR CONSENT		
1	TO BE	ARRANGED			STIMAN
240O	PRIV APP	MUS-TUBA	01.0 TO 04.0 CR		
	PREREQ	3 QTRS AT	PREVIOUS LEVEL ON SAME INSTR OR CONSENT		
1	TO BE	ARRANGED			STIMAN
240P	PRIV APP	MUS-BATONE	01.0 TO 04.0 CR		
	PREREQ	3 QTRS AT	PREVIOUS LEVEL ON SAME INSTR OR CONSENT		
1	TO BE	ARRANGED			STIMAN
240Q	PRIV APP	MUS-VOICE	01.0 TO 04.0 CR		
	PREREQ	3 QTRS AT	PREVIOUS LEVEL ON SAME INSTR OR CONSENT		
1	TO BE	ARRANGED			WATERMAN
2	TO BE	ARRANGED			TAYLOR
3	TO BE	ARRANGED			LAWRENCE
4	TO BE	ARRANGED			
240R	PRIV APP	MUS-ORGAN	01.0 TO 04.0 CR		
	PREREQ	3 QTRS AT	PREVIOUS LEVEL ON SAME INSTR OR CONSENT		
1	TO BE	ARRANGED			WEBB
240S	PRIV APP	MUS-HARPCB	01.0 TO 04.0 CR		
	PREREQ	3 QTRS AT	PREVIOUS LEVEL ON SAME INSTR OR CONSENT		
1	TO BE	ARRANGED			MORGAN
2	TO BE	ARRANGED			BEDFORD
300B	EL METH-NON MAJ 4-6		03.0 CR		
	PREREQ	200 OR EQUIVALENT			
1	12.00	M W F	ALTG	248	MCHUGH
300C	EL METH-NON MAJ K-3		03.0 CR		
	PREREQ	200 OR EQUIVALENT			
1	10.00	M W F	ALTG	248	MCHUGH
309A	ARRANGING		02.0 CR		
	PREREQ	105C			
1	12.00	T TH	ALTG	248	BOTTJE
312A	COMPOSITION		02.0 CR		
	PREREQ	205C			
1	TO BE	ARRANGED			BOTTJE
318A	CONDUCTING		02.0 CR		
1	09.00	T TH	ALTG	116	LEVINSON
326A	ANALYSIS		02.0 CR		
	PREREQ	205C			
1	01.00	T TH	ALTG	116	BABER
340A	PRIV APP	MUS-VIOLIN	01.0 TO 04.0 CR		
	PREREQ	3 QTRS AT	PREVIOUS LEVEL ON SAME INSTR OR CONSENT		
1	TO BE	ARRANGED			LEVINSON
2	TO BE	ARRANGED			KARTMAN
3	TO BE	ARRANGED			WHARTON
340B	PRIV APP	MUS-VIOLA	01.0 TO 04.0 CR		
	PREREQ	3 QTRS AT	PREVIOUS LEVEL ON SAME INSTR OR CONSENT		
1	TO BE	ARRANGED			BABER
340C	PRIV APP	MUS-CELLO	01.0 TO 04.0 CR		
	PREREQ	3 QTRS AT	PREVIOUS LEVEL ON SAME INSTR OR CONSENT		
1	TO BE	ARRANGED			COWLEY
340D	PRIV APP	MUS-STRING	01.0 TO 04.0 CR		
	PREREQ	3 QTRS AT	PREVIOUS LEVEL ON SAME INSTR OR CONSENT		
1	TO BE	ARRANGED			COWLEY
340E	PRIV APP	MUS-FLUTE	01.0 TO 04.0 CR		
	PREREQ	3 QTRS AT	PREVIOUS LEVEL ON SAME INSTR OR CONSENT		
1	TO BE	ARRANGED			RESNICK

2	TO BE ARRANGED				BOTTJE
340F	PRIV APP MUS-OBOE	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT				HUSSEY
1	TO BE ARRANGED				
340G	PRIV APP MUS-CLAR	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT				RESNICK
1	TO BE ARRANGED				
2	TO BE ARRANGED				INTRAVAIA
340H	PRIV APP MUS-BASSON	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT				INTRAVAIA
1	TO BE ARRANGED				
340I	PRIV APP MUS-SAX	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT				HUSSEY
1	TO BE ARRANGED				
2	TO BE ARRANGED				HUSSEY
340J	PRIV APP MUS-PERCUS	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT				FLOYD
1	TO BE ARRANGED				
340K	PRIV APP MUS-PIANO	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT				GRIZZELL
1	TO BE ARRANGED				
2	TO BE ARRANGED				DENKER
3	TO BE ARRANGED				BARWICK
4	TO BE ARRANGED				MUELLER
5	TO BE ARRANGED				WERNER
340L	PRIV APP MUS-F HORN	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT				NADAF
1	TO BE ARRANGED				
340M	PRIV APP MUS-TRUMP	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT				LEMASTERS
1	TO BE ARRANGED				
2	TO BE ARRANGED				CLSSCN
340N	PRIV APP MUS-TRBONE	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT				STIMAN
1	TO BE ARRANGED				
340O	PRIV APP MUS-TUBA	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT				STIMAN
1	TO BE ARRANGED				
340P	PRIV APP MUS-BATONE	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT				STIMAN
1	TO BE ARRANGED				
340Q	PRIV APP MUS-VOICE	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT				WATERMAN
1	TO BE ARRANGED				
2	TO BE ARRANGED				TAYLOR
3	TO BE ARRANGED				LAWRENCE
4	TO BE ARRANGED				
340R	PRIV APP MUS-ORGAN	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT				WEBB
1	TO BE ARRANGED				
340S	PRIV APP MUS-HARPCH	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT				MORGAN
1	TO BE ARRANGED				
2	TO BE ARRANGED				BEDFORD
341	ACCOMPANYING LAB	01.0 CR			
1	TO BE ARRANGED				
346	OPERA WORKSHOP	02.0 TO 36.0 CR			
1	03.00	T TH	ALTG	115	LAWRENCE
	03.00-04.50	F	ALTG	115	
	07.00-10.00 PM	WTH	ALTG	116	
357A	MUS HIST + LIT	03.0 CR			
	PREREQ MUS 105C CR CONSENT OF INSTRUCTOR				
1	10.00	TWTHF	ALTG	116	MORGAN
365A	CHAMBER MUS-VOCAL	01.0 CR			
1	04.00	M W	ALTG	115	KINGSBURY
2	04.00	M W	ALTG	116	TAYLOR
365B	CHAMBER MUS-STRING	01.0 CR			
1	TO BE ARRANGED				KARTMAN
365C	CHAMBER MUS-WOODWND	01.0 CR			
1	TO BE ARRANGED				RESNICK, HUSSEY,
365D	CHAMBER MUS-BRASS	01.0 CR			INT RAVAIA
1	TO BE ARRANGED				NADAF, KOENIGSTEIN
411A	SYMPHONIC LIT	03.0 CR			



1	01.00	M W F	ALTG	106	BARWICK
414	COLLEGIUM MUSICUM	02.0 TO 06.0	CR		
	PREREQ	MUSIC CONCENTRATION AND/OR CONSENT OF DEPARTMENT			
1	01.00	T TH	0812	107	MORGAN
440A	PRIV APP MUS-VIOLIN	01.0 TO 04.0	CR		
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT			
1	TO BE	ARRANGED			LEVINSON
2	TO BE	ARRANGED			KARTMAN
3	TO BE	ARRANGED			WHARTON
440B	PRIV APP MUS-VIOLA	01.0 TO 04.0	CR		
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT			
1	TO BE	ARRANGED			BABER
440C	PRIV APP MUS-CELLO	01.0 TO 04.0	CR		
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT			
1	TO BE	ARRANGED			COWLEY
440D	PRIV APP MUS-STRING	01.0 TO 04.0	CR		
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT			
1	TO BE	ARRANGED			COWLEY
440E	PRIV APP MUS-FLUTE	01.0 TO 04.0	CR		
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT			
1	TO BE	ARRANGED			RESNICK
2	TO BE	ARRANGED			BOTTJE
440F	PRIV APP MUS-OBOE	01.0 TO 04.0	CR		
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT			
1	TO BE	ARRANGED			HUSSEY
440G	PRIV APP MUS-CLAR	01.0 TO 04.0	CR		
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT			
1	TO BE	ARRANGED			RESNICK
2	TO BE	ARRANGED			INTRAVAIA
440H	PRIV APP MUS-BASSON	01.0 TO 04.0	CR		
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT			
1	TO BE	ARRANGED			INTRAVAIA
440I	PRIV APP MUS-SAX	01.0 TO 04.0	CR		
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT			
1	TO BE	ARRANGED			RESNICK
2	TO BE	ARRANGED			HUSSEY
440J	PRIV APP MUS-PERCUS	01.0 TO 04.0	CR		
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT			
1	TO BE	ARRANGED			FLOYD
440K	PRIV APP MUS-PIANO	01.0 TO 04.0	CR		
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT			
1	TO BE	ARRANGED			GRIZZELL
2	TO BE	ARRANGED			CENKER
3	TO BE	ARRANGED			BARWICK
4	TO BE	ARRANGED			MUELLER
5	TO BE	ARRANGED			WERNER
440L	PRIV APP MUS-F HORN	01.0 TO 04.0	CR		
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT			
1	TO BE	ARRANGED			NADAF
440M	PRIV APP MUS-TRUMP	01.0 TO 04.0	CR		
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT			
1	TO BE	ARRANGED			LEMASTERS
2	TO BE	ARRANGED			OLSSON
440N	PRIV APP MUS-TRBONE	01.0 TO 04.0	CR		
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT			
1	TO BE	ARRANGED			STIMAN
440O	PRIV APP MUS-TUBA	01.0 TO 04.0	CR		
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT			
1	TO BE	ARRANGED			STIMAN
440P	PRIV APP MUS-BATONE	01.0 TO 04.0	CR		
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT			
1	TO BE	ARRANGED			STIMAN
440Q	PRIV APP MUS-VOICE	01.0 TO 04.0	CR		
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT			
1	TO BE	ARRANGED			WATERMAN
2	TO BE	ARRANGED			TAYLOR
3	TO BE	ARRANGED			LAWRENCE
4	TO BE	ARRANGED			
440R	PRIV APP MUS-ORGAN	01.0 TO 04.0	CR		
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT			
1	TO BE	ARRANGED			WEBB
440S	PRIV APP MUS-HARPCH	01.0 TO 04.0	CR		
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT			

1	TO BE ARRANGED				MORGAN
2	TO BE ARRANGED				BEDFORD
441A	COUNTERPOINT		02.0 CR		
	PREREQ 105C				
1	01.00	T TH	ALTG 106		WERNER
444A	INTERMEDIATE COMP		02.0 CR		
	PREREQ 312C AND CCNSENT OF DEPARTMENT				
1	TO BE ARRANGED				BOTTJE
451	TEACH GEN CLASS MUS		02.0 TO 03.0 CR		
1	01.00	M W F	ALTG 248		TAYLOR
468	MUSIC PRODUCTIONS		02.0 TO 12.0 CR		
1	TO BE ARRANGED				LAWRENCE
481	READINGS IN THEORY		02.0 TO 06.0 CR		
1	TO BE ARRANGED				MUELLER
482	READ IN HIST + LIT		02.0 TO 06.0 CR		
1	TO BE ARRANGED				MORGAN
483	READ IN MUS EDUC		02.0 TO 06.0 CR		
1	TO BE ARRANGED				GORDON
499	INDEPENDENT STUDY		01.0 TO 12.0 CR		
	PREREQ CCNSENT CF INSTRUCTOR				
1	TO BE ARRANGED				GORDON
501	INT GRAD ST IN MUS		03.0 CR		
1	12.00	M W F	LIB 217		DENKER
502A	ANALYTIC TECHNIQUES		02.0 CR		
1	02.00	T TH	ALTG 106		MUELLER
503	MUSIC ED RESEARCH		03.0 CR		
1	03.00	M W F	ALTG 106		
506	CLASSICAL MUSIC		03.0 CR		
1	02.00	M W F	ALTG 106		BARWICK
531	ADV COMPOSITION		02.0 TO 09.0 CR		
	PREREQ 312C, 342C, AND CCNSENT OF INSTRUCTOR				
1	TO BE ARRANGED				BOTTJE
540A	PRIV APP MUS-VIOLIN		01.0 TO 04.0 CR		
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CCNSENT				
1	TO BE ARRANGED				LEVINSON
2	TO BE ARRANGED				KARTMAN
3	TO BE ARRANGED				WHARTON
540B	PRIV APP MUS-VIOLA		01.0 TO 04.0 CR		
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CCNSENT				
1	TO BE ARRANGED				BABER
540C	PRIV APP MUS-CELLO		01.0 TO 04.0 CR		
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CCNSENT				
1	TO BE ARRANGED				COWLEY
540D	PRIV APP MUS-STRING		01.0 TO 04.0 CR		
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CCNSENT				
1	TO BE ARRANGED				COWLEY
540E	PRIV APP MUS-FLUTE		01.0 TO 04.0 CR		
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CCNSENT				
1	TO BE ARRANGED				RESNICK
2	TO BE ARRANGED				BOTTJE
540F	PRIV APP MUS-OBOE		01.0 TO 04.0 CR		
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CCNSENT				
1	TO BE ARRANGED				HUSSEY
540G	PRIV APP MUS-CLAR		01.0 TO 04.0 CR		
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CCNSENT				
1	TO BE ARRANGED				RESNICK
2	TO BE ARRANGED				INTRAVAIA
540H	PRIV APP MUS-BASSON		01.0 TO 04.0 CR		
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CCNSENT				
1	TO BE ARRANGED				INTRAVAIA
540I	PRIV APP MUS-SAX		01.0 TO 04.0 CR		
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CCNSENT				
1	TO BE ARRANGED				RESNICK
2	TO BE ARRANGED				HUSSEY
540J	PRIV APP MUS-PERCUS		01.0 TO 04.0 CR		
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CCNSENT				
1	TO BE ARRANGED				FLOYD
540K	PRIV APP MUS-PIANO		01.0 TO 04.0 CR		
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CCNSENT				
1	TO BE ARRANGED				GRIZZELL
2	TO BE ARRANGED				DENKER
3	TO BE ARRANGED				BARWICK
4	TO BE ARRANGED				MUELLER

5	TO BE ARRANGED				WERNER
540L	PRIV APP MUS-F HORN	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT				NADAF
1	TO BE ARRANGED				
540M	PRIV APP MUS-TRUMP	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT				
1	TO BE ARRANGED				LEMASTERS
2	TO BE ARRANGED				OLSSCN
540N	PRIV APP MUS-TRBONE	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT				
1	TO BE ARRANGED				STIMAN
540O	PRIV APP MUS-TUBA	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT				
1	TO BE ARRANGED				STIMAN
540P	PRIV APP MUS-BATONE	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT				
1	TO BE ARRANGED				STIMAN
540Q	PRIV APP MUS-VOICE	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT				
1	TO BE ARRANGED				WATERMAN
2	TO BE ARRANGED				TAYLOR
3	TO BE ARRANGED				LAWRENCE
4	TO BE ARRANGED				
540R	PRIV APP MUS-ORGAN	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT				
1	TO BE ARRANGED				WEBB
540S	PRIV APP MUS-HARPCH	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT				
1	TO BE ARRANGED				MORGAN
2	TO BE ARRANGED				BEDFORD
545	PEDAGOGY-MUS THEORY	03.0 TO 09.0 CR			
1	10.00	T THF	ALTG	106	MUELLER
556	ADV CONDUCTING	02.0 TO 06.0 CR			
1	TO BE ARRANGED				KINGSBURY
2	TO BE ARRANGED				LEVINSON
3	TO BE ARRANGED				KOENIGSTEIN
566A	INST ENSEMBLE-SYMPH	01.0 CR			
1	02.00	M W F	ALTG	114	KOENIGSTEIN
566B	INST ENSEMBLE-WIND	01.0 CR			
1	02.00	T TH	ALTG	114	SIENER
566C	INST ENSEMBLE-ORCH	01.0 CR			
1	03.00-04.30	M W F	ALTG	114	KARTMAN
566D	INST ENSEMBLE-S I S	01.0 CR			
1	03.00-04.30	M W F	ALTG	114	LEVINSON
566E	SMALL INST ENSEMBLE	01.0 CR			
1	TO BE ARRANGED				
567A	VOCAL ENSEMBL-CHOIR	01.0 CR			
1	04.00-05.30	T TH	ALTG	115	KINGSBURY
567B	VOCAL ENSEMBL-CHORU	01.0 CR			
1	07.30-09.45 PM	M	H EC	140B	KINGSBURY
567C	VOCAL ENSEMBL-M G C	01.0 CR			
1	08.00-09.30 PM	T TH	ALTG	115	KINGSBURY
567D	VOCAL ENSEMBL-W C E	01.0 CR			
1	03.00	M W F	ALTG	115	TAYLOR
567E	VOCAL ENSEMBL-SMALL	01.0 CR			
1	TO BE ARRANGED				KINGSBURY
568	OPERA WORKSHOP	02.0 TO 12.0 CR			
1	03.00	T TH	ALTG	115	LAWRENCE
	03.00-04.50	F	ALTG	115	
	07.00-10.00 PM	WTH	ALTG	116	
	AUDITION REQUIRED				
599	THESIS	03.0 TO 09.0 CR			
1	TO BE ARRANGED				GORDON

#### Philosophy (PHIL)

300	ELEM METAPHYSICS	04.0 CR			
1	10.00	MTWTH	H EC	208	KELLY
320	GENERAL LOGIC	04.0 CR			
1	02.00	MTWTH	H EC	201	CLARKE
389	EXISTENTIAL PHIL	03.0 CR			
1	09.00	M W F	H EC	208	IHDE
415	LOGIC OF SOCIAL SCI	03.0 CR			
1	11.00	M W F	H EC	208	MCCLURE



477	LATIN AM PHILOSOPHY	04.0	CR		
1	04.00-06.30 M W	H EC	201	BARALT	
481A	19TH CEN EUROP PHIL	03.0	CR		
1	03.00 M W F	H EC	208	DIEFENBECK	
490	SPECIAL PROBLEMS	02.0 TO 05.0	CR		
	PREREQ CONSENT CF INS IN ALL CASE REQUIRED				
1	TO BE ARRANGED			HAHN	
	SECT 1 OFFERED FOR 2 TO 5 CREDIT HRS				
2	04.00-06.30 T	H EC	211	SCHILPP	
	SCIENCE AND RELIGION-OFFERED FOR 3 CREDIT HRS				
3	04.00-06.30 M	H EC	211	KELLY	
	MEDIEVAL PHILOSOPHY-OFFERED FOR 3 CREDIT HRS				
4	07.00-09.30 PM T	H EC	208	IHDE	
	PHENOMENOLOGY-OFFERED FOR 3 CREDIT HRS				
497A	HONORS	12.0	CR		
	PREREQ QUALIFICATION FOR HONORS				
1	04.00-06.30 W	H EC	211		
582	SEMINAR-ARISTOTLE	02.0 TO 04.0	CR		
1	07.00-09.30 PM W	H EC	208	PLOCHMAN	
589	GEN GRAD SEMINAR	03.0	CR		
	PREREQ CONSENT CF INSTR				
1	07.00-09.30 PM M	H EC	208	EAMES, S.M.	
	(JAMES)-OFFERED FOR 3 CREDIT HRS				
590	GEN GRAD SEMINAR	02.0 TO 12.0	CR		
1	TO BE ARRANGED			HAHN	
2	04.00-06.30 M	H EC	208	LEYS	
	POLITICAL AND LEGAL PHILOSOPHY-3 CREDIT HRS				
3	04.00-06.30 T	H EC	208	EAMES, E.	
	AYER-OFFERED FOR 3 CREDIT HRS				
4	04.00-06.30 W	H EC	208	HAHN	
	PHILOS.IDEAS IN LITERATURE-3 CREDIT HRS				
591	READINGS IN PHIL	01.0 TO 05.0	CR		
	PREREQ CONSENT CF INSTR				
1	TO BE ARRANGED			HAHN	
599	THESIS	02.0 TO 09.0	CR		
1	TO BE ARRANGED			HAHN	
600	DISSERTATION	03.0 TO 48.0	CR		
1	TO BE ARRANGED			HAHN	

### Physical Education for Men (PEM)

100A	M TEACH SWIMMING	01.0	CR		
	PREREQ IF NONSWIMMER--AUDIT GSE 100A			BEG SWIM	
1	11.20-12.10 M W F	PULL P	11	ESSICK	
2	12.10-01.00 M W F	PULL P	11	ESSICK	
100B	M TEACH GOLF	01.0	CR		
1	08.00-09.50 M TH	ARENA	555	HOLDER	
	MEETS FIRST NINE WEEKS ONLY				
2	08.00-09.50 T F	ARENA	555	HOLDER	
	MEETS FIRST NINE WEEKSONLY				
100C	M TEACH TENNIS	01.0	CR		
1	08.00-09.50 M W	TENNIS	100	LEFEVRE	
	MEETS FIRST NINE WEEKS ONLY				
2	08.00-09.50 T TH	TENNIS	100	LEFEVRE	
	MEETS FIRST NINE WEEKSONLY				
3	09.00-10.50 T TH	TENNIS	100	LEFEVRE	
	MEETS FIRST NINE WEEKSONLY				
100D	M TCH IND-TEAM ACT	01.0	CR		
1	08.00 MTWTH	ARENA	555	REESE	
	MEETS FIRST NINE WEEKS ONLY				
2	09.00 MTWTH	ARENA	555	WILKINSON	
	MEETS FIRST NINE WEEKSONLY				
100E	M TCH BASIC RHYTHMS	01.0	CR		
1	10.00 M W F	ARENA	555	FRANKLIN	
100F	M TCH EXER-FITNESS	01.0	CR		
1	12.00 M	ARENA	123	GOOD	
	12.00 W F	ARENA	555		
100G	M TEACH FOOTBALL	02.0	CR		
1	01.00-03.30 M W	ARENA	555	MAZIE	
	MEETS FIRST NINE WEEKS ONLY				
2	01.00-03.30 T TH	ARENA	555	REESE	
	MEETS FIRST NINE WEEKSONLY				
100H	M TEACH BASKETBALL	02.0	CR		
1	11.00 M W F	ARENA	555	IUBELT	

		11.00	T	ARENA	123	
2		01.00	M W F	ARENA	555	IUBELT
		01.00	T	ARENA	123	
100I	M TEACH BASEBALL			02.0	CR	
1		11.00	MTWTH	ARENA	555	LUTZ
2		01.00-02.50	M W	ARENA	555	LUTZ
3		01.00-02.50	T TH	ARENA	555	LUTZ
100J	M TEACH TRACK-FIELD			02.0	CR	
1		10.00	MTWTH	ARENA	555	HARTZOG
2		11.00	MTWTH	ARENA	555	HARTZOG
3		12.00	MTWTH	ARENA	555	HARTZOG
100K	M TEACH GYMNASTICS			02.0	CR	
1		09.00	MTWTH	ARENA	555	MEADE
100M	M TEACH WRESTLING			02.0	CR	
1		10.00	MT TH	ARENA	555	LONG
		10.00	W	ARENA	125	
101	ORIENT-PRACT P E			02.0	CR	
1		12.00	T TH	ARENA	123	MARTIN
2		12.00	W F	ARENA	123	MARTIN
3		01.00	W F	ARENA	123	MARTIN
170	VARSITY FOOTBALL			02.0	CR	
1		03.00	MTWTHF	ARENA	555	TOWERS
178	VARSITY CROSS COUNT			02.0	CR	
1		03.00	MTWTHF	ARENA	555	HARTZOG
230	TECHNIQUES BALLET	02.0		TO 48.0	CR	
1		04.00	T	GYM	206	CAVICSON
		04.00-05.50	M W	GYM	206	
	CROSS-LISTED WITH PEw + THEA 230					
303	KINESIOLOGY			05.0	CR	
	PREREQ	PHSL 300				
1		11.00	MTWTHF	LAWSON	121	GOOD
	CROSS-LISTED WITH PEw 303					
305	PE - ATYPICAL STUD			02.0	CR	
	PREREQ	PHSL 300				
1		10.00	T TH	ARENA	125	GREENE
2		02.00	T TH	ARENA	121	GREENE
330A	TH BASKETBALL COACH			02.0	CR	
	PREREQ	100H				
1		10.00	T TH	ARENA	123	HARTMAN
330B	THEO FOOTBALL COACH			02.0	CR	
	PREREQ	PEM 217				
1		08.00	MTW	ARENA	123	TOWERS
	MEETS FIRST NINE WEEKS ONLY					
341	PRIN OF P E			03.0	CR	
	PREREQ	SENIOR STANDING				
1		02.00	M W F	ARENA	125	SHEA
350	M-M TEACH PE EL SCH			03.0	CR	
1		09.00	MTWTH	ARENA	125	FRANKLIN
2		01.00	M W F	ARENA	121	FRANKLIN
		01.00	T	ARENA	119	
354	ORG-ADM PHY ED-ATHL			03.0	CR	
1		03.00	MTW	ARENA	125	STOTLAR
355	ASSISTING TECH			02.0	CR	
1		06.00	PM M	ARENA	125	WILKINSON
	TO BE ARRANGED					
370	TESTS MEAS PHY ED	03.0		TO 04.0	CR	
1		08.00	MTWTH	ARENA	125	FRANKLIN
376	CARE-PREV ATH INJ			03.0	CR	
	PREREQ	PHSL 300				
1		12.00	MTWTH	ARENA	125	SPACKMAN
402	O-A INTRA + EX ACT			02.0	CR	
1		01.00-02.50	TH	ARENA	123	WILKINSON
420	EFFECTS MOTOR ACTIV			04.0	CR	
1		01.00	MTWTH	ARENA	125	KNOWLTON
	UNDERGRADUATES ONLY					
2		07.00-09.30 PM	W	ARENA	125	KNOWLTON
	GRADUATES ONLY-COURSE CROSS-LISTED WITH PEw 420					
475A	IND RES-DANCE			02.0	TO 04.0	CR
1	TO BE ARRANGED					
	CROSS-LISTED WITH PEw 475A					
475B	IND RES-KINESIOLOGY			02.0	TO 04.0	CR
1	TO BE ARRANGED					
	CROSS-LISTED WITH PEw 475B					

475C	IND RES-MEASUREMENT	02.0 TO 04.0 CR		
1	TO BE ARRANGED			
	CROSS-LISTED WITH PEW 475C			
475D	IND RES-MOTOR DEVEL	02.0 TO 04.0 CR		
1	TO BE ARRANGED			
	CROSS-LISTED WITH PEW 475D			
475E	IND RES-PHSL OF EX	02.0 TO 04.0 CR		
1	TO BE ARRANGED			
	CROSS-LISTED WITH PEW 475E			
475F	IND RES-HIST + PHIL	02.0 TO 04.0 CR		
1	TO BE ARRANGED			
	CROSS-LISTED WITH PEW 475F			
500	TECH RESEARCH	04.0 CR		
1	07.00-09.30 PM M	GYM 204	ZIMMERMAN	
	CROSS-LISTED WITH PEW 500			
510A	MOTOR DEVEL	02.0 CR		
1	07.00-08.50 PM T	GYM 204	POTTER	
	CROSS-LISTED WITH PEW 510A			
511	ANAL HUM PHYS MOVE	02.0 CR		
1	07.00-08.50 PM TH	ARENA 125	GOOD	
	CROSS-LISTED WITH PEW 511			
525	READING IN P E	01.0 TO 06.0 CR		
1	TO BE ARRANGED			
	CROSS-LISTED WITH PEW 525			
599	THESIS	01.0 TO 09.0 CR		
1	TO BE ARRANGED			
	CROSS-LISTED WITH PEW 599			
600	DISSERTATION	01.0 TO 12.0 CR		
1	TO BE ARRANGED			
	CROSS-LISTED WITH PEW 600			

# Physical Education for Women (PEW)

114	SPEEDBALL	01.0 CR		
1	08.00-09.30 T TH	GYM 208	MOORE	
2	11.00-12.30 T TH	GYM 208	ILLNER	
3	12.00-01.30 T TH	GYM 208	BRECHTELSBAUER	
212	BEG CONTEMP DANCE	01.0 CR		
1	09.00 M W F	GYM 208	DAVIDSON	
2	01.00 M W F	GYM 208	LITHERLAND	
222	FOLK DANCING	01.0 CR		
1	08.00 M W F	GYM 207	STEH	
2	12.00 M W F	GYM 114	LITHERLAND	
3	07.00-08.30 PM M W	GYM 208	LITHERLAND	
230	TECHNIQUES BALLET	02.0 CR		
1	04.00-05.50 M W	GYM 206	DAVIDSON	
	04.00 T	GYM 206		
240	THEO-TECH CONT DNCE	02.0 CR		
1	02.00-03.50 MTWTH	GYM 206	GRAY	
244	HOCKEY	01.0 CR		
1	09.00-10.30 T TH	GYM 208	ILLNER	
2	01.00-02.30 T TH	GYM 208	ILLNER	
273	DANCE WORKSHOP	01.0 CR		
1	07.00-09.00 PM T	0813 101	GRAY	
303	KINESIOLOGY	05.0 CR		
	PREREQ ANATOMY			
1	11.00 MTWTHF	AWSON 121		
304A	TECH-TEACH SPORTS	02.0 CR		
1	10.00-11.50 W F	GYM 208	THORPE	
2	11.00-12.30 W F	GYM 208	BRECHTELSBAUER	
304B	TECH-TEACH SPORTS	02.0 CR		
1	10.00-11.50 T TH	GYM 208	STEH	
311A	TH OFFIC BASKETBALL	01.0 CR		
1	09.00 F	GYM 204	BRECHTELSBAUER	
312	HIST PHIL OF DANCE	04.0 CR		
1	01.00 MTWTH	GYM 204	DAVIDSON	
319	TCHG ELEM SCH ACT	04.0 CR		
	PREREQ PSYC 301 CR GUID 305			
1	08.00 MTWTH	GYM 114		
2	09.00 MT THF	GYM 207		
3	11.00 MT THF	GYM 207		
4	04.00-05.30 T TH	GYM 208		
5	05.00 MTWTH	GYM 208		
352	HISTORY OF PHYS ED	02.0 CR		



1	09.00	MTWTH	GYM	204	DAVIES
	FIRST SIX WEEKS				
354	09.00	MTWTH	GYM	204	DAVIES
	LAST SIX WEEKS				
370	08.00	MTWTH	GYM	204	WEST
402	01.00-02.50	TH	ARENA	123	STOTLAR
	CROSSLISTED WITH PEM				
420	07.00-09.30 PM	W	ARENA	125	KNOWLTON
	CROSSLISTED WITH PEM				
475A	02.00			TO 04.0	CR
1	TO BE ARRANGED				
475B	02.00			TO 04.0	CR
1	TO BE ARRANGED				
475C	02.00			TO 04.0	CR
1	TO BE ARRANGED				
475D	02.00			TO 04.0	CR
1	TO BE ARRANGED				
475E	02.00			TO 04.0	CR
1	TO BE ARRANGED				
475F	02.00			TO 04.0	CR
1	TO BE ARRANGED				
500	04.00				CR
	PREREQ PEW 400 CR CONCURRENT ENR IN PEW 400				
1	07.00-09.30 PM	M	GYM	204	ZIMMERMAN
	CROSS-LISTED WITH PEM				
510A	02.00				CR
1	07.00-08.50 PM	T	GYM	204	POTTER
	CROSS-LISTED WITH PEM				
511	02.00				CR
1	07.00-08.50 PM	TH	ARENA	125	GOOD
	CROSS-LISTED WITH PEM				
525	01.00			TO 06.0	CR
	PREREQ CONSENT CF INSTR AND DEPT CHAIRMAN				
1	TO BE ARRANGED				
599	01.00			TO 09.0	CR
1	TO BE ARRANGED				
600	02.00			TO 48.0	CR
1	TO BE ARRANGED				

### Physics (PHYS)

111A	03.00				CR
	PREREQ MATH 111B CR H S EQUIV				
1	02.00	TWTHF	PARK	308	ZIMMERMAN J R
2	02.00	TWTH	PARK	308	
	02.00	M	PARK	308	
112A	01.00				CR
	PREREQ CONCURRENT ENR IN PHYS 111				
1	10.00-12.50	TH	PHY SC	403	
2	03.00-05.50	M	PHY SC	403	
206A	03.00				CR
	PREREQ MATH 111B				
1	11.00	M W F	PARK	308	SAPOROSCHENKO
	11.00	T	PARK	309	
2	11.00	M W F	PARK	308	SAPOROSCHENKO
	11.00	TH	PARK	309	
3	12.00	MTW F	PARK	308	
4	12.00	M WTHF	PARK	308	
206B	03.00				CR
	PREREQ PHYS 206A CR 206C				
1	11.00	M W F	PARK	309	LEFEBVRE GERALD M
	10.00	T	PARK	309	
206C	03.00				CR
	PREREQ PHYS 206B CR 206A				
1	10.00	M W F	PARK	309	
	10.00	TH	PARK	309	
207A	01.00				CR
	PREREQ CONCURRENT ENR IN PHYS 206				
1	10.00-12.50	T	PHY SC	403	
2	12.00-02.50	W	PHY SC	403	

3	01.00-03.50	T	PHY SC	403	
4	01.00-03.50	TH	PHY SC	403	
5	06.00-08.50 PM	M	PHY SC	403	
207B	COLLEGE PHYS LAB			01.0 CR	
	PREREQ	CONCURRENT ENR IN	PHYS 206		
1	01.00-03.50	T	PHY SC	405	
207C	COLLEGE PHYS LAB			01.0 CR	
	PREREQ	CONCURRENT ENR IN	PHYS 206		
1	01.00-03.50	TH	PHY SC	405	
211A	UNIVERSITY PHYSICS			05.0 CR	
	PREREQ	MATH 150B (OR EQUIVALENT)			
1	08.00	M W F	PARK	308	
	08.00-09.50	S	PHY SC	403	
	08.00	T TH	PARK	308	
2	08.00	M W F	PARK	308	
	08.00-09.50	T	PHY SC	403	
	10.00	T TH	PARK	308	
3	08.00	M W F	PARK	308	
	08.00-09.50	TH	PHY SC	403	
	01.00	T TH	PARK	308	
4	09.00	M W F	PARK	308	CARRELL JOHN CRAIG
	10.00-11.50	W	PHY SC	403	
	09.00	T TH	PARK	308	
5	09.00	M W F	PARK	308	CARRELL JOHN CRAIG
	01.00-02.50	M	PHY SC	403	
	11.00	T TH	PARK	308	
6	09.00	M W F	PARK	308	CARRELL JOHN CRAIG
	04.00-05.50	TH	PHY SC	403	
	01.00	T TH	PARK	301	
7	01.00	M W F	PARK	308	HENNEBERGER W C
	04.00-05.50	W	PHY SC	403	
	01.00	T TH	PARK	309	
8	01.00	M W F	PARK	308	HENNEBERGER W C
	08.00-09.50	F	PHY SC	403	
	11.00	T TH	PARK	301	
9	01.00	M W F	PARK	308	HENNEBERGER W C
	10.00-11.50	F	PHY SC	403	
	03.00	T TH	PARK	308	
211B	UNIVERSITY PHYSICS			05.0 CR	
	PREREQ	PHYS 211A CR 211C			
1	09.00	M W F	PARK	309	LEFEBVRE GERALD M
	08.00-09.50 PM	T	PHY SC	405	
	09.00	T TH	PARK	309	
2	09.00	M W F	PARK	309	LEFEBVRE GERALD M
	09.00	T TH	PARK	301	
	10.00-11.50	TH	PHY SC	405	
211C	UNIVERSITY PHYSICS			05.0 CR	
	PREREQ	PHYS 211A CR 211B			
1	12.00	M W F	PARK	309	
	10.00-11.50	T	PHY SC	407	
	12.00	T TH	PARK	309	
2	12.00	M W F	PARK	309	
	12.00	T TH	PARK	301	
	10.00-11.50	TH	PHY SC	407	
300	UNIVERSITY PHYS IV			05.0 CR	
	PREREQ	PHYS 111 206 OR PHYS 211			
1	03.00	MTW F	PARK	309	CHANG-FANG CHUEN-C
	04.00	T	PARK	301	
	04.00-05.50	W	PHY SC	404	
2	03.00	MTW F	PARK	309	CHANG-FANG CHUEN-C
	04.00	T	PARK	301	
	03.00-04.50	TH	PHY SC	404	
304	THERMODYNAMICS			03.0 CR	
1	12.00	M W F	PARK	301	BOSE SUBIR K
305A	INTRO ELEC THEORY			03.0 CR	
	PREREQ	MATH 305A CR CCNS INSTR + PHYS 111 OR 206 OR 211			
1	02.00	M W F	PARK	309	PEARSON EDWIN F
309	ELECTRIC CIRCUITS			03.0 CR	
	PREREQ	PHYS 111C CR 206C OR 211C			
1	01.00	M W F	PARK	309	CUTNELL JOHN D
401	MECHANICS II			03.0 CR	
	PREREQ	MATH 407 AND PHYS 301			
1	02.00	M W F	PHY SC	410	WATSON RICHARD ELVIS

415B	MODERN PHYSICS		03.0 CR	
	PREREQ	PHYS 415A		
1	08.00	M W F	PARK 309	SULLIVAN JOHN J
418	MOD PHYSICS LAB		01.0 TO 04.0 CR	
1	TO BE ARRANGED			ZITTER ROBERT N
420	SPECIAL PROJECTS I		02.0 TO 05.0 CR	
	PREREQ	PHYS 301 AND 305		
1	TO BE ARRANGED			
449A	SERV INST-PHYS TEAC		01.0 CR	
1	09.00-11.50	S	PARK 301	NICKELL
504A	X-RAY DIFF LAT DYN		04.0 CR	
	PREREQ	GRAD STANDING		
1	11.00	M W	TECH B 143	
	10.00-11.50	TH	TECH B 143	
	CROSS-LISTED WITH	AP S 504A		
510A	CLASSICAL MECHANICS		03.0 CR	
	PREREQ	PHYS 401		
1	12.00	M W F	PHY SC 410	ZITTER
511A	MATH METH OF PHYS		03.0 CR	
	PREREQ	MATH 407 CR EQUIV, OR CONSENT OF INSTR		
1	09.00	M W F	PARK 301	
520	SPECIAL PROJECTS		02.0 TO 05.0 CR	
	PREREQ	CONSENT CF INSTR		
1	TO BE ARRANGED			
530A	ELECTROMAG THEORY		03.0 CR	
	PREREQ	PHYS 305		
1	03.00	M W F	PARK 301	
531A	QUANTUM MECHANICS		03.0 CR	
	PREREQ	MATH 407, PHYS 415, OR CONSENT OF INSTR		
1	10.00	M W F	PARK 301	HENNEBERGER W C
532A	ADV QUANTUM MECH		03.0 CR	
	PREREQ	PHYS 531 AND CCNSENT OF INSTR		
1	11.00	M W F	PARK 301	
560A	STAT MECHANICS		03.0 CR	
	PREREQ	CONSENT CF INSTR		
1	02.00	M W F	PARK 301	BOSE SUBIR K
570A	SOLID STATE PHYS		03.0 CR	
	PREREQ	PHYS 531 AND CCNSENT OF INSTR		
1	01.00	M W F	PARK 301	
575	GRAD SEMINAR		01.0 TO 04.0 CR	
1	03.00-04.50	M	PARK 308	ARVIN MARTIN JOSEPH
580	SEL TOPICS PHYS		03.0 TO 06.0 CR	
1	TO BE ARRANGED			
590	THESIS		01.0 TO 09.0 CR	
1	TO BE ARRANGED			

### Physiology (PHSL)

300	HUMAN ANATOMY		04.0 TO 05.0 CR	
1	TO BE ARRANGED			FOOTE
2	11.00	MTWTH	LS I 16	
315A	ADV COLLEGE PHSL		05.0 CR	
	PREREQ	GSA 201C AND 5 HRS CHEM		
1	08.00	M W F	LS I 113	KAPLAN
410A	ADVANCED ANATOMY		05.0 CR	
1	02.00-03.50	M WTHF	LS I 18	FOOTE
415A	EXP ANIMAL SURGERY		04.0 CR	
1	10.00-11.50	M W F	LS I 118	KAPLAN
417A	PRIN PHARMACOLOGY		03.0 CR	
	PREREQ	BASIC COURSES IN CHEM AND BIO SCIENCE		
1	11.00	M W	MAIN 202	GASS
	10.00-11.50	F	LS I 120	GASS
430A	CELLULAR PHYSIOLOGY		04.0 CR	
1	09.00	M W F	LAWSON 131	DUNAGAN
	02.00-03.50	T	LS I 120	
433	COMPAR PHYSIOLOGY		04.0 CR	
1	01.00	M W F	LS I 16	MILLER
	02.00-03.50	M	LS I 120	MILLER
450	SPECIAL PROBLEMS		04.0 TO 16.0 CR	
	PREREQ	CONSENT CF DEPT		
1	02.00-03.50	M W F	LS I 113	
	08.00-09.50	S	LS I 113	
460A	MAMMALIAN PHSL		04.0 CR	
	PREREQ	ADEQUATE TRAINING IN BIO SCIENCES AND CHEM		



1	08.00	M W F	LS I	113	KAPLAN
	08.00-09.50	T TH	LS I	113	
465A	BIOPHYSICS			03.0 CR	
	PREREQ	1 YR OF PHYSICS			
1	09.00	M W F	AG	216	RICHARDSON
471A	BIOPHYS INST			03.0 CR	
	PREREQ	1 YR OF PHYSICS AND CONSENT OF INSTR			
1	10.00	T THF	STAD	5	RICHARDSON
500	ADV SEMINAR			01.0 TO 09.0 CR	
1	10.00	S	LS I	16	RICHARDSON
520A	PHSL TECHNIQUES			03.0 CR	
	PREREQ	UNDERGRAD MAJOR IN ANY BIO OR PHYSICAL SCIENCE			
1	08.00	T TH	AG	218	DUNAGAN
	08.00-09.50	S	LS I	120	DUNAGAN
521	PHYSIOLOGY READINGS			01.0 TO 06.0 CR	
	PREREQ	CONSENT CF DEPT			
1	TO BE ARRANGED				
599	THESIS			03.0 TO 09.0 CR	
1	03.00-04.50	MTWTHF	LS I	109	
600	DISSERTATION			04.0 TO 36.0 CR	
1	03.00-04.50	MTWTHF	LS I	117	

### Plant Industries (PL I)

109	PRIN-FIELD CROP PRC			04.0 CR	
1	10.00	M W F	AG	168	ELKINS
	10.00-11.50	TH	AG	171	
2	10.00	M W F	AG	168	ELKINS DONALD M
	11.00-12.50	W	AG	171	
264	GEN HORTICULTURE			04.0 CR	
1	08.00	MTW	AG	168	HILLYER IRVIN GEORGE
	08.00-09.50	F	AG	181	
2	08.00	MTW	AG	168	HILLYER
	10.00-11.50	F	AG	181	
				00.0 CR	
304	LANDSCAPE GARDENING			03.0 CR	
1	03.00	M W	AG	170	COORTS GERALD D
	03.00-04.50	F	AG	195	
306A	SOIL + WATER CONS			03.0 CR	
	PREREQ	PL I 103			
1	11.00	M W F	AG	166	JONES JOE H
	CROSS-LISTED WITH AG I 306A				
306B	SOIL + WATER CONS			02.0 CR	
	PREREQ	PL I 306A CR CONCURRENT ENROLLMENT IN 306A			
1	11.00-12.50	T TH	AG	195	
2	03.00-04.50	T TH	AG	195	
	CROSS-LISTED WITH AG I 306B				
310	MORPH OF CROP PLANT			04.0 CR	
	PREREQ	GSA 201B CR EQUIVALENT			
1	01.00	M W F	AG	171	ELKINS DONALD M
	01.00-02.50	T	AG	171	
316	SMALL FRUITS			04.0 CR	
	PREREQ	GSA 201B			
1	09.00	M	AG	174	BLAKE ROLAND C
	09.00	WTH	AG	170	
	09.00-10.50	T	AG	187	
381	AGRIC SEMINAR			01.0 TO 02.0 CR	
	PREREQ	SENIOR STANDING			
1	04.00	T	AG	225	COORTS GERALD D
	CROSS-LISTED WITH AG I, AN I, FOR				
390	SPEC STUD PLANTS			01.0 TO 06.0 CR	
	PREREQ	CONSENT CF DEPT CHAIRMAN			
1	09.00-11.50	S	AG	171	LEASURE
404	TURF MANAGEMENT			03.0 CR	
	PREREQ	GSA 201B			
1	10.00	M W	AG	116	TWEEDY JAMES A
	10.00-11.50	F	AG	171	
408	WORLD CROP PRODUCT			04.0 CR	
	PREREQ	PREREQ PL I 309			
1	02.00	M WTH	AG	220	LEASURE JOHN K
	02.00-03.50	T	AG	220	
418	WEEDS-THEIR CONTROL			04.0 CR	
	PREREQ	GSA 201B CR CONCURRENT ENROLLMENT			
1	09.00	MTW	AG	220	LEASURE JOHN K

	08.00-09.50	TH	AG	171	
507	ADV SOIL FERTILITY			03.0	CR
	PREREQ PL I 407A				
1	03.00	T THF	AG	155	VAVRA JOSEPH P
520	READINGS			01.0 TO 06.0	CR
	PREREQ CONSENT CF DEPT				
1	TO BE ARRANGED				
575	RESEARCH			01.0 TO 06.0	CR
	PREREQ CONSENT CF DEPT				
1	TO BE ARRANGED				VAVRA
2	TO BE ARRANGED				TWEECY
3	TO BE ARRANGED				
581	SEMINAR			01.0 TO 02.0	CR
1	04.00	T	AG	181	HILLYER IRVIN G
590	SPEC STUDIES-PL I			01.0 TO 04.0	CR
1	TO BE ARRANGED				
599	THESIS			01.0 TO 09.0	CR
1	TO BE ARRANGED				

### Printing and Photography (P & P)

260A	FUND-STILL PHOTO			04.0	CR	
1	01.00-02.50	T TH	0834	113	EILERS	
	01.00-03.50	M	AG	142		
2	01.00-02.50	T TH	0834	113	EILERS	
	01.00-03.50	W	AG	142		
3	05.30-07.20	M W	0834	113	EILERS	
	10.00-12.50	M	AG	142		
4	05.30-07.20	M W	0834	113	EILERS	
	10.00-12.50	T	AG	142		
5	05.30-07.20	T TH	0834	113	EILERS	
	10.00-12.50	W	AG	142		
6	05.30-07.20	T TH	0834	113	EILERS	
	10.00-12.50	TH	AG	142		
303	PORTRAIT PHOTOGRAPH			04.0	CR	
	PREREQ P+P 260C					
1	11.00	T TH	0834	113	HORRELL	
	01.00-02.50	T	0834	104		
309A	COMMERCIAL PHOTO			04.0	CR	
	PREREQ P+P 260C					
1	12.00-01.50	F	0834	113	EILERS	
	09.00-11.50	S	AG	142		
2	03.00-04.50	F	0834	113	EILERS	
	02.00-04.50	F	AG	142		
341A	CINEMATOGRAPHY			04.0	CR	
1	09.00	TWTH	0834	113	MERCER	
	12.00-01.50	W	0834	104		
2	09.00	TWTH	0834	113	MERCER	
	02.00-03.50	W	0834	104		
3	09.00	TWTH	0834	113	MERCER	
	10.00-11.50	TH	0834	104		
4	09.00	TWTH	0834	113		
	01.00-02.50	TH	0834	104		
360A	PUBLICATIONS PHOTO			03.0	CR	
	PREREQ P+P 260A					
1	11.00	M W F	0834	113	HORRELL	
	01.00-02.50	TH	AG	142		
401	HISTORY OF CINEMA			03.0	CR	
1	04.00-05.50	T TH	LAWSON	131	MERCER	
	04.00	M	LAWSON	131		
412	WKSHOP CINEMA PROD			01.0 TO 06.0	CR	
	PREREQ CONSENT CF DEPT					
1	TO BE ARRANGED				PAINÉ	
428	MANAGING IND PHOTO			03.0	CR	
	PREREQ CONSENT CF DEPT					
1	03.00	M WTH	0834	113	HORRELL	
431	PROB STILL PHOTO CI			01.0 TO 12.0	CR	
	PREREQ BY PERMISSION					
1	TO BE ARRANGED				EILERS	

### Psychology (PSYC)

211A	PRIN-METH OF PSYC			04.0	CR
	PREREQ GSB 201C				

1	08.00	M W F	MAIN	309	RADTKE
	08.00-09.50	T	MAIN	210	
2	08.00	M W F	MAIN	309	RADTKE
	08.00-09.50	TH	MAIN	210	
3	12.00	MTW	LAWSON	101	
	12.00-01.50	F	WHAM	206	
4	12.00	MTW	LAWSON	101	
	12.00-01.50	TH	WHAM	326	
211B	PRIN-METH OF PSYC		04.0	CR	
	PREREQ PSYC 211A				
1	09.00	W	WHAM	112	EVANSON
	08.00-09.50	M	WOODY	39	
	09.00	T F	WHAM	302	
2	09.00	W	WHAM	112	EVANSON
	09.00	T F	WHAM	302	
	08.00-09.50	TH	H EC	203	
301	CHILD PSYCH		04.0	CR	
	PREREQ GSB 201C				
1	10.00	MTWTH	MAIN	309	WENDT
2	02.00	M WTHF	LAWSON	101	
303	ADOLESCENT PSYCH		04.0	CR	
	PREREQ GSB 201C				
1	12.00	MTWTH	LAWSON	201	WENDT
305	PSYCH PERSONALITY		04.0	CR	
	PREREQ GSB 201C				
1	10.00	TWTHF	AG	214	MAC LEAN
2	01.00	M WTHF	WHAM	308	HNATION
307	SOCIAL PSYCHOLOGY		04.0	CR	
	PREREQ GSB 201C				
1	11.00	M WTHF	LAWSON	201	MITCHELL
T 2	03.00	M WTHF	AG	214	
311	EXP PSYCH LEARN		04.0	CR	
	PREREQ PSYC 211B				
1	08.00	MT TH	AG	188	MELTZER
	08.00-09.50	W	H EC	122	
312	EXP PSYC PERCEP		04.0	CR	
	PREREQ PSYC 211B				
1	10.00-11.50	W F	CL	25	LIT
314	EXP PSYC COMP PHYS		04.0	CR	
	PREREQ PSYC 211B				
1	11.00	MTW	MAIN	305	LEVITT
	11.00-12.50	TH	TECH A	120	
320	INDUSTRIAL PSYCH		04.0	CR	
	PREREQ GSB 201C				
1	11.00	MTW F	AG	224	HILL
2	03.00-04.50	T TH	MAIN	102	WESTBERG
399B	RES + INV - HONORS		01.0 TO 12.0	CR	
	PREREQ CONSENT OF DEPT CHAIRMAN				
1	TO BE ARRANGED				ENRENFREUND
407	TH OF LEARNING		04.0	CR	
	PREREQ PSYC 211B CR CCNSENT OF INSTR				
1	10.00-11.50	T	AG	188	RADTKE
	11.00	W F	AG	188	RADTKE
408	TH OF MOTIVATION		04.0	CR	
	PREREQ PSYC 211B CR CCNSENT OF INSTR				
1	01.00-02.50	M TH	AG	188	EHRENFREUND
421	PSYCH TESTS + MEAS		04.0	CR	
	PREREQ 8 HRS OF PSYC				
1	08.00-09.50	M W	AG	154	RAYNARD
425	MATH PSYCHOLOGY		04.0	CR	
	PREREQ MATH 410A, 421A, AND 480A OR CONSENT OF INSTR				
1	10.00-11.50	M	WHAM	212	PITZ
	10.00	W F	WHAM	212	
431	PSYCOPATHOLOGY		04.0	CR	
	PREREQ 305 OR CCNSENT OF INSTR				
1	03.00-04.50	M	MAIN	207	HNATION
	03.00-04.50	TH	LAWSON	101	
440	TH OF PERSONALITY		04.0	CR	
	PREREQ PSYC 305 CR CONSENT OF INSTR				
1	09.00	MTW F	LAWSON	231	
451	ADVACED CHILD PSYC		04.0	CR	
	PREREQ PSYC 211B, AND 301 OR CONSENT OF INSTRUCTOR				



1	03.00	THF	MAIN	207	ODONNELL
	03.00-04.50	T	MAIN	207	
465	GRP DYN-IND BEHAV			04.0	CR
	PREREQ	307	OR	CCNSENT	CF INSTR
1	01.00-02.50	M	TH	AG	224 MITCHELL
490	INDEPEN PROJECTS			01.0	TO 16.0 CR
	PREREQ				CONSENT CF INSTR AND DEPT CHAIRMAN
1	TO BE ARRANGED				
495	SELECTED TOPICS			01.0	TO 18.0 CR
	PREREQ				CONSENT CF DEPT
1	TO BE ARRANGED				
510	HISTORY + SYSTEMS			04.0	CR
	PREREQ				CONSENT CF INSTR
1	08.00	TWTHF	CL	25	MCHOSE
514A	PHYSIOLOGICAL PSYCH			04.0	CR
	PREREQ				CONSENT CF INSTR
1	10.00-11.50		S	WHAM	212 LEVITT
	09.00	M	W	F	WHAM 212
523	RESEARCH SEMINAR			02.0	CR
	PREREQ				PSYC 522
1	01.00-02.50		F	WHAM	208 RINGUETTE
530	PERS THEOR + DYN			04.0	CR
	PREREQ				CONSENT CF INSTR
1	01.00-02.50		W	F	AG 224 SCHILL
543A	PSYCHODIAGNOSTIC II			04.0	CR
	PREREQ				PSYC 541 CR CCNSENT OF INSTR
1	03.00-04.50		M	W	CL 25 RAFFERTY
	04.00			TH	CL 25
547	ASSESS PROCED COUNS			04.0	CR
	PREREQ				PSYC 421 CR CCNSENT OF INSTRUCTOR
1	01.00-02.50		M	AG	222 HARREN
	01.00-02.50			TH	AG 216
581	PSYCHOPHYSICAL MET			04.0	CR
	PREREQ				CONSENT CF INSTR
1	03.00-04.50		T	TH	WHAM 203 LIT
590	READINGS-PSYC			01.0	TO 16.0 CR
	PREREQ				CONSENT CF DEPT
1	TO BE ARRANGED				
591	RESEARCH IN PSYC			01.0	TO 36.0 CR
	PREREQ				CONSENT CF DEPT
1	TO BE ARRANGED				
593E	PRACT-CLIN PSYC			01.0	TO 18.0 CR
	PREREQ				CONSENT CF INSTR IN CHARGE
1	TO BE ARRANGED				
2	01.00-02.50		TH	0481	202 RADER
3	01.00-02.50		TH	0481	202 SHOEMAKER
593F	PRACT-COUNS PSYC			01.0	TO 18.0 CR
	PREREQ				CONSENT CF INSTR IN CHARGE
1	TO BE ARRANGED				
593H	PRACT-INDUST PSYC			01.0	TO 18.0 CR
	PREREQ				CONSENT CF INSTR IN CHARGE
1	TO BE ARRANGED				
593J	PRACT-CHILD PSYC			01.0	TO 18.0 CR
	PREREQ				CONSENT CF INSTR IN CHARGE
1	TO BE ARRANGED				
593L	PRACT-TEACHING PSYC			01.0	TO 18.0 CR
	PREREQ				CONSENT CF INSTR IN CHARGE
1	TO BE ARRANGED				
595	ADVANCED SEMINAR			01.0	TO 18.0 CR
	PREREQ				CONSENT CF DEPT
1	TO BE ARRANGED				
2	TO BE ARRANGED				
3	TO BE ARRANGED				
4	TO BE ARRANGED				
5	TO BE ARRANGED				
6	TO BE ARRANGED				
598	ETH PROF PROB PSY			02.0	CR
	PREREQ				PSYC MAJCR OR CCNSENT OF INSTR
1	TO BE ARRANGED				
599	THESIS			01.0	TO 09.0 CR
1	TO BE ARRANGED				
600	DISSERTATION			01.0	TO 36.0 CR
1	TO BE ARRANGED				

# Radio-Television (R - T)

161	RADIO-TV SPEAKING			04.0	CR	
1	09.00	MTWTH	COMM	110	RICHTER	
2	11.00	MTWTH	COMM	110	LYNCH	
3	03.00	MTWTH	COMM	110	HILDRETH	
251	SURVEY OF BROADCAST			03.0	CR	
1	08.00	M W F	COMM	144	BARTLETT	
2	12.00	M W F	COMM	144		
252	PRODUCTION ANALYSIS			03.0	CR	
1	10.00	MT TH	COMM	144	DYBVG	
2	01.00	MT TH	COMM	144		
260	AUDIO CONTROL PRACT			01.0	CR	
1	12.00-01.50	T	COMM	528	FALL	
2	12.00-01.50	TH	COMM	528	HALL	
3	03.00-04.50	M	COMM	528		
4	03.00-04.50	W	COMM	528		
310	RADIO - TV NEWS			03.0	CR	
	PREREQ JRNL 103, 201, 202 AND 303					
1	01.00	M W F	COMM	110	DUGAS	
351	PROGS AND AUDIENCES			05.0	CR	
	PREREQ R-T 251					
1	09.00	MTWTHF	COMM	144	DYBVG	
352	LAWS AND POLICIES			04.0	CR	
	PREREQ R-T 251					
1	02.00	MTWTH	COMM	144	RIMERMAN	
360	RADIO ANNOUNCING			03.0	CR	
	PREREQ R-T 161 PASSED WITH A MINIMUM GRADE OF C					
1	12.00	M W F	COMM	110	BROWN	
363	RADIO PRODUCTION			04.0	CR	
	PREREQ R-T 260					
1	10.00-11.50	F	COMM	110	HILDRETH	
	07.00-10.00 PM	TH	COMM	110		
2	02.00-03.50	F	COMM	110		
	07.00-10.00 PM	W	COMM	110		
364	TV PRODUCTION			04.0	CR	
	PREREQ R-T 252					
1	10.00	M WTH	COMM	108	PICTCR	
	10.00-11.50	T	COMM	108		
2	01.00	M WTH	COMM	108		
	01.00-02.50	T	COMM	108		
369	TV DIRECTING			04.0	CR	
	PREREQ R-T 364					
1	08.00	T TH	COMM	108	ROCHELLE	
	TO BE ARRANGED					
370	TELEVISION FILMS			02.0	CR	
1	11.00-12.50	TH	COMM	144	MENDENHALL	
373	ADV RADIO PROD LAB			01.0 TO 02.0	CR	
	PREREQ R-T 363 CR CONCURRENT ENR IN R-T 363					
1	04.00	T TH	COMM	144	LYNCH	
374	ADV TV PROD LAB			01.0 TO 02.0	CR	
	PREREQ R-T 364					
1	05.00	M	COMM	144	LAFFERTY	
375	PROB RAD-TV PROG			01.0 TO 02.0	CR	
1	03.00-04.50	T	COMM	144	RIMERMAN	
377	R-TV ADVERTISING			03.0	CR	
	PREREQ JRNL 370 AND 371					
1	04.00	M W F	COMM	144	DYBVG	
383	BROADCAST WRITING			04.0	CR	
	PREREQ R-T 363 AND 364					
1	08.00	M W	COMM	110	LYNCH	
	08.00-09.50	F	COMM	110		
393	RADIO-TV + SOCIETY			03.0	CR	
	PREREQ R-T 251, 351, +352					
1	11.00	M W F	COMM	144	RIMERMAN	
430	PUB AFF + R-T ESTAB			03.0	CR	
1	06.00-09.00 PM	M	COMM	144	RIMERMAN	
464	PUB AFFAIRS-TV PROG			03.0	CR	
	PREREQ CONSENT OF INSTRUCTOR					
1	06.00-09.00 PM	T	COMM	144		
475	INDIV PRODUCT PROB			01.0 TO 04.0	CR	
1	03.00	TH	COMM	144	ROBBINS	

# Recreation and Outdoor Education (REC)

201	LEISURE AND REC			03.0 CR	
1	08.00	M W	AG	224	CBRIEN
	08.00		F AG	216	
202	PROG IN REC			03.0 CR	
	PREREQ REC 201				
1	09.00	M W F	BAILEY	130	CBRIEN
302	INSTITUTIONAL REC			03.0 CR	
1	TO BE ARRANGED				GIDECN
310A	SOC REC-TECHNIQUES			02.0 CR	
1	01.00	T TH	WHAM	137	LUCKENBACH
310B	SOC REC-DRAMATICS			02.0 CR	
1	02.00	M W	MAIN	202	TAYLOR
310C	SOC REC-LEIS CRAFTS			02.0 CR	
1	02.00	T TH	PULL	43	MURPHY
310D	SOC REC-MUS + DANCE			02.0 CR	
1	01.00	M W	WHAM	137	SUTTON
365	ORG ADMIN-COMM REC			04.0 CR	
	PREREQ REC 201, 202, AND 15 HRS IN REC				
1	10.00	M W	AG	148	OBRIEN
	10.00	T TH	MAIN	206	
380	FIELD WORK			01.0 TO 04.0 CR	
	PREREQ 20HRS RECREATION				
1	TO BE ARRANGED				ABERNATHY
425	REC AREAS AND FAC			03.0 CR	
1	10.00	M W	MAIN	303	ABERNATHY
	10.00	TH	MAIN	306	
490	PRACTICUM			04.0 TO 16.0 CR	
1	TO BE ARRANGED				ABERNATHY
500	PRIN OF REC			04.0 CR	
1	06.30-09.00 PM	W	MAIN	304A	RIDINGER
510	OUTDOOR ED WKSHIP			04.0 CR	
1	06.30-09.00 PM	M	MAIN	102	FREEBURG
530	REC PROGRAM WORKSHIP			04.0 CR	
	PREREQ REC 500				
1	06.30-09.00 PM	T	MAIN	102	RIDINGER
540	SURV + PLAN OF FAC			04.0 CR	
1	06.30-09.00 PM	M	MAIN	207	TAYLOR
596	INDEPENDENT STUDY			02.0 TO 09.0 CR	
1	TO BE ARRANGED				FREEBURG

# Rehabilitation Institute (REHB)

414	DEV EMP OPPORT			01.0 TO 16.0 CR	
	PREREQ SPECIAL STANDING OR CONSENT OF INSTR				VIECELI + DICKEY
1	TO BE ARRANGED				
420	HUMAN DEV AND BEH			04.0 CR	
	PREREQ ADVANCED STANDING				
1	07.35-09.15 PM	T TH	LAWSON	101	SULZER
480	INTRO TO REHB			02.0 CR	
1	01.00-02.50	M	PULL	43	VIECELI
485	SCIENTIFIC METHOD			04.0 CR	
1	10.00-11.50	M W	H EC	104	SANDERS
490	READINGS IN REHB			01.0 TO 06.0 CR	
	PREREQ CONSENT CF INSTR				
1	TO BE ARRANGED				
501A	REHB ADMINISTRATION			02.0 CR	
	PREREQ CONSENT CF INSTR				
1	05.45-07.15	W	COMM	120	LEE
511	VOCATIONAL CHOICE			02.0 CR	
	PREREQ CONSENT OF INSTR				
1	09.00-10.50	S	COMM	112	LEE
520	FUNCT ANAL OF BEHAV			04.0 CR	
	PREREQ CONSENT CF INSTRUCTOR				
1	03.00-04.50	M W	PULL	41	
551	GEN REHB COUNSELING			03.0 CR	
	PREREQ CONSENT CF DEPARTMENT				
1	09.00-04.30	MTWTHFS	0406	102	GARDNER + SCHUMACHER
	SECT 2 IS OFFERED FOR 4 CREDIT HOURS				
2	05.45-07.15	T TH	LS I	205	GRENFELL
561	PSYC-SOC ASPECT-DIS			02.0 TO 03.0 CR	
	PREREQ CONSENT CF DEPARTMENT				
1	05.45-07.25	TH	COMM	120	SCHUMACHER



567	SCH-RELATED BEHAV			04.0 CR	
	PREREQ	GUID 501 AND CONSENT OF INSTR			
1	03.00-04.50	M W	CL	326	HOPKINS
571	SEM IN SEL TOPICS			02.0 CR	
	PREREQ	CONSENT CF DEPT			
1	05.45-07.25	M	COMM	120	TWOMEY
578	SEM IN CORR REH CO			02.0 TO 06.0 CR	
	PREREQ	CONSENT CF INSTR			
1	TO BE ARRANGED				TWOMEY
585A	PRACTICUM IN REHAB			00.0 TO 08.0 CR	
1	TO BE ARRANGED				LEE
585B	PRACTICUM IN REHAB			00.0 TO 08.0 CR	
1	TO BE ARRANGED				SULZER
585C	PRACTICUM IN REHAB			00.0 TO 08.0 CR	
1	TO BE ARRANGED				SCHUMACHER
589	INTERNSHIP IN REHAB			00.0 TO 12.0 CR	
	PREREQ	REHB 585 AND CONSENT OF DEPT			
1	TO BE ARRANGED				
590	INDEPENDENT PROJ			01.0 TO 16.0 CR	
	PREREQ	CONSENT CF INSTR			
1	TO BE ARRANGED				
591	RESEARCH IN REHAB			01.0 TO 16.0 CR	
	PREREQ	CONSENT CF INSTR			
1	TO BE ARRANGED				
599	THESIS			01.0 TO 09.0 CR	
	PREREQ	CONSENT CF INSTR			
1	TO BE ARRANGED				

### Religious Studies (RELS)

301	CONT WEST REL THOT			03.0 CR	
1	04.00	M W F	COMM	111	HAYWARD
320A	BIBLICAL STUDIES			03.0 CR	
	PREREQ	JUNIOR STANDING OR CONSENT OF INSTRUCTOR			
1	08.00	M W F	H EC	104	SMITH
330A	HIST WES REL THOUGH			03.0 CR	
	PREREQ	JUNIOR STANDING OR CONSENT OF INSTRUCTOR			
1	03.00	W F	H EC	203	SMITH

### Secondary Education (S ED)

310	HIST PRIN OF SEC ED			04.0 CR	
	PREREQ	GUID 305			
1	08.00	M W F	WHAM	326	
	10.00	TH	H EC	140B	
2	08.00	M W F	WHAM	326	
	04.00	TH	WHAM	105	
3	09.00	M W F	WHAM	326	
	10.00	TH	H EC	140B	
4	09.00	M W F	WHAM	326	
	04.00	TH	WHAM	105	
5	10.00	M W F	WHAM	326	
	10.00	TH	H EC	140B	
6	10.00	M W F	WHAM	326	
	04.00	TH	WHAM	105	
7	11.00	M W F	WHAM	326	
	10.00	TH	H EC	140B	
8	11.00	M W F	WHAM	326	
	04.00	TH	WHAM	105	
9	12.00	M W F	WHAM	326	
	10.00	TH	H EC	140B	
10	12.00	M W F	WHAM	326	
	04.00	TH	WHAM	105	
11	01.00	M W F	WHAM	326	
	10.00	TH	H EC	140B	
12	01.00	M W F	WHAM	326	
	04.00	TH	WHAM	105	
13	02.00	M W F	WHAM	326	
	10.00	TH	H EC	140B	
14	02.00	M W F	WHAM	326	
	04.00	TH	WHAM	105	
15	03.00	M W F	WHAM	326	
	10.00	TH	H EC	140B	
16	03.00	M W F	WHAM	203	
	10.00	TH	H EC	140B	

17	03.00	M W F	WHAM	326	
	04.00	TH	WHAM	105	
18	03.00	M W F	WHAM	203	
	04.00	TH	WHAM	105	
19	04.00	M W F	WHAM	326	
	10.00	TH	H EC	140B	
20	04.00	M W F	WHAM	326	
	04.00	TH	WHAM	105	
21	06.00-07.25 PM	M W	LAWSON	201	
	10.00	TH	H EC	140B	
22	06.00-07.25 PM	M W	WHAM	326	
	04.00	TH	WHAM	105	
315	HIGH SCHOOL METHODS			03.0	CR
	PREREQ S ED 310				
1	08.00	M WTH	WHAM	319	
2	12.00	M WTH	WHAM	319	
352	SEC STUD TCH			08.0	TO 16.0 CR
1	TO BE ARRANGED				
	(AGRICULTURE)				
2	TO BE ARRANGED				
	(ART)				
3	TO BE ARRANGED				
	(BIOLOGY)				
4	TO BE ARRANGED				
	(BUSINESS)				
5	TO BE ARRANGED				
	(CHEMISTRY)				
6	TO BE ARRANGED				
	(ECONOMICS)				
7	TO BE ARRANGED				
	(ENGLISH)				
8	TO BE ARRANGED				
	(FOREIGN LANGUAGE)				
9	TO BE ARRANGED				
	(GENERAL STUDIES)				
10	TO BE ARRANGED				
	(GEOGRAPHY)				
11	TO BE ARRANGED				
	(GOVERNMENT)				
12	TO BE ARRANGED				
	(HEALTH EDUCATION)				
13	TO BE ARRANGED				
	(HISTORY)				
14	TO BE ARRANGED				
	(HOME ECONOMICS)				
15	TO BE ARRANGED				
	(INDUSTRIAL EDUCATION)				
16	TO BE ARRANGED				
	(JOURNALISM)				
17	TO BE ARRANGED				
	(MATHEMATICS)				
18	TO BE ARRANGED				
	(MUSIC)				
19	TO BE ARRANGED				
	(PHYSICAL EDUCATION)				
20	TO BE ARRANGED				
	(PHYSICS)				
21	TO BE ARRANGED				
	(SOCIOLOGY)				
22	TO BE ARRANGED				
	(SOCIAL STUDIES)				
23	TO BE ARRANGED				
	(SPEECH)				
24	TO BE ARRANGED				
	(LIBRARY SCIENCE)				
375	READINGS IN S EDUC			02.0	TO 03.0 CR
	PREREQ CONSENT CF DEPT CHAIRMAN				
1	TO BE ARRANGED				
440	TEACH READ IN H S			04.0	CR
	PREREQ GUID 305				
1	09.00	MT THF	WHAM	319	DUSENBURY
487	TCH NAT SCI-SEC SCH			04.0	CR
1	06.30-09.00 PM	T	PULL	43	HUNGERFORD HAROLD R

488	SOC ST IN SEC SCH	03.0 CR	
	PREREQ GUID 305		
1	12.00 M W F WHAM	208	
506	READING IN SEC SCH	04.0 CR	
	PREREQ S ED 352 CR TEACHING EXPERIENCE		
1	06.30-09.00 PM W WHAM	144	CUSENBERY
507	READINGS IN READING	02.0 TO 04.0 CR	
	PREREQ CONSENT OF INSTR		
1	TO BE ARRANGED		HILL
509	PRACTICUM IN RD	04.0 TO 08.0 CR	
	PREREQ S ED 521C		
1	TO BE ARRANGED		FISHCO
516	INTERN IN READING	08.0 TO 12.0 CR	
	PREREQ S ED 509 AND 514		
1	TO BE ARRANGED		HILL
521A	DIAG-CORR READ DIS	04.0 CR	
1	09.00-12.50 S WHAM	144	
562	HIGH SCH CURRICULUM	04.0 CR	
	PREREQ 1 GRAD COURSE IN CURRICULUM		
1	06.30-09.00 PM M WHAM	326	KEEFER DARYLE
564	H S PRINCIPALSHIP	04.0 CR	
	PREREQ CONSENT OF INSTR		
1	06.30-09.00 PM W WHAM	326	ADAMS
575A	IND RES-CURRICULUM	02.0 TO 04.0 CR	
1	TO BE ARRANGED		
575B	IND RES-SUPERVISION	02.0 TO 04.0 CR	
1	TO BE ARRANGED		
575C	IND RES-LANG ARTS	02.0 TO 04.0 CR	
1	TO BE ARRANGED		
575D	IND RES-SCIENCE	02.0 TO 04.0 CR	
1	TO BE ARRANGED		
575E	IND RES-READING	02.0 TO 04.0 CR	
1	TO BE ARRANGED		
575F	IND RES-SOC STUDIES	02.0 TO 04.0 CR	
1	TO BE ARRANGED		
575G	IND RES-SEC EDUC	02.0 TO 04.0 CR	
1	TO BE ARRANGED		
575K	IND RES-JR H METHOD	02.0 TO 04.0 CR	
1	TO BE ARRANGED		
596	INDEPENDENT INVEST	05.0 TO 09.0 CR	
1	TO BE ARRANGED		
599	THESIS	03.0 TO 09.0 CR	
1	TO BE ARRANGED		
600	DISSERTATION	01.0 TO 48.0 CR	
1	TO BE ARRANGED		

#### Secretarial and Business Education (SEC)

201A	TYPEWRITING	03.0 CR	
1	08.00 TWTHF CL	13	
2	03.00 MT THF CL	13	BURGER
201B	TYPEWRITING	03.0 CR	
	PREREQ SEC 201A CR EQUIV		
1	04.00 MTWTH CL	13	BUBOLTZ
201C	TYPEWRITING	03.0 CR	
	PREREQ SEC 201B CR EQUIV		
1	11.00 TWTHF CL	13	
221A	SHORTHAND-TRANS	04.0 CR	
1	09.00 MTWTHF CL	17	RAHE
221B	SHORTHAND-TRANS	04.0 CR	
	PREREQ SEC 221A CR EQUIV		
1	01.00 MTWTHF CL	17	BURGER
221C	SHORTHAND-TRANS	04.0 CR	
	PREREQ SEC 221B CR EQUIV		
1	01.00 MTWTHF CL	13	BUBOLTZ
241	DUPLICATING	01.0 CR	
	PREREQ SEC 201 CR EQUIV		
1	08.00-09.50 F CL	10	
2	10.00-11.50 M CL	10	
3	02.00-03.50 W CL	10	
4	04.00-05.50 TH CL	10	
242	CALC MACH ACCTANTS	01.0 CR	
1	11.00 M W CL	17	BAUERNFEIND



304	ADV TYPEWRITING				03.0	CR	
	PREREQ	SEC 201C	CR EQUIV				
1	01.00		TWTHF	CL	13		GARRISON
2	02.00		MTWTH	CL	13		
324A	ADV SHORTHAND-TRANS				04.0	CR	
	PREREQ	SEC 221C	CR EQUIV				
1	12.00		MTWTHF	CL	17		BURGER
324B	ADV SHORTHAND-TRANS				04.0	CR	
	PREREQ	SEC 324A	CR EQUIV				
1	12.00		MTWTHF	CL	13		GARRISON
326	EXECUTIVE SEC PROC				04.0	CR	
	PREREQ	SEC 304					
1	10.00		MTWTHF	CL	13		BAUERNFEIND
341	OFFICE CALC MCHNS				04.0	CR	
1	02.00		MTWTHF	CL	17		BAUERNFEIND
405	TEACH GEN BUS SUBJ				03.0	CR	
1	07.35-09.00 PM		T TH	CL	17		BUBOLTZ
408	TCH BKPG ACCT /P/				03.0	CR	
	PREREQ	ACCT 251B	CR EQUIV				
1	06.00-07.25 PM		T TH	CL	17		BAUERNFEIND
426	OFFICE MANAGEMENT				04.0	CR	
1	05.45-07.25		M W	CL	17		JACOBSON
500	PRIN + PROB-BUS ED				04.0	CR	
	PREREQ	AT LEAST 1	SPECIAL METHODS				COURSE IN BUSINESS EDUC
1	09.00-11.30		S	CL	10		RAHE
590	READINGS IN BUS ED				02.0 TO 05.0	CR	
	PREREQ	CONSENT OF INSTR					
1	TO BE ARRANGED						
591	IND RES IN BUS ED				02.0 TO 05.0	CR	
	PREREQ	CONSENT OF INSTR					
1	TO BE ARRANGED						
599	THESIS				01.0 TO 09.0	CR	
1	TO BE ARRANGED						

### Sociology (SOC)

301	PRINCIPLES OF SOC				04.0	CR	
	PREREQ	JR STANDING					
1	09.00		T TH	WHAM	308		ROSSEL
	09.00		W F	H EC	206		
	SECT 1 RESERVED FOR SOC MAJORS ONLY						
2	10.00		M F	WHAM	112		MARTIN
	10.00		T TH	AG	144		
	SECT 2 IS RESERVED FOR SOC MAJORS ONLY						
3	01.00		TWTHF	LAWSON	221		MUNCH
302	CONTEMP SOC PROB				04.0	CR	
	PREREQ	SOC 301					
1	08.00		TWTHF	CL	24		ALIX
	SECT 1-RESERVED FOR SOC MAJORS ONLY						
2	01.00		MTW	LAWSON	201		SMITH
	01.00		F	WHAM	302		
312	ELEM SOC RESEARCH				04.0	CR	
	PREREQ	GSD 108C	CR MATH 220				
1	TO BE ARRANGED						
2	10.00		TWTH	PULL	43		BROOKS
	10.00		F	WHAM	202		
	SECT 2 RESERVED FOR SOC MAJORS ONLY						
332	SOCIAL ORGANIZATION				04.0	CR	
	PREREQ	SOC 301					
1	08.00-09.40		M W	WHAM	302		NALL
2	08.00		M F	MAIN	210		GASTON
	08.00		T TH	MAIN	207		
3	10.00-11.40		M W	WHAM	302		NALL
338	INDUSTRIAL SOC				04.0	CR	
	PREREQ	GSB 201B	CR SOC 301				
1	12.00		TWTHF	WHAM	112		ROSSEL
340	THE FAMILY				04.0	CR	
	PREREQ	GSB 201B	CR SOC 301				
1	03.00-04.50		M W	PULL	38		LANTZ
372	CRIMINOLOGY				04.0	CR	
	PREREQ	GSB 201B	CR SOC 301				
1	11.00		M F	WHLR	113		VANDIVER
	11.00		T TH	MAIN	102		

374	SOCIOLOGY OF ED	04.0 CR	
	PREREQ GSB 201B CR SOC 301		
1	12.00 MT THF LS 1	205	MARTIN
375	SOCIAL WELFARE	04.0 CR	
	PREREQ GSB 201B CR SOC 301		
1	09.00 T THF WHAM	112	EADES
	09.00 W COMM	111	
2	11.00 TWTHF WHAM	112	EADES
383	INTROD INTERVIEWING	04.0 CR	
	PREREQ GSB 201B CR SOC 301		
1	02.00 MTWTH WHAM	302	BRELJE
396	READINGS IN SOC	01.0 TO 05.0 CR	
	PREREQ CONSENT CF INSTR		
1	TO BE ARRANGED		
412	SOCIOLOGICAL RES	04.0 CR	
	PREREQ GRAD STATUS OR CONSENT OF INSTR		
1	01.00-02.50 T TH WHAM	305	BROOKS
453	SOCIAL MOVEMENTS	04.0 CR	
	PREREQ GSB 201B CR SOC 301		
1	10.00-11.50 T TH WHLR	214	PATTERSON
472	AM CORRECT SYSTEM	04.0 CR	
	PREREQ SOC 372 CR CONSENT OF INSTR		
1	TO BE ARRANGED		JOHNSON
473	MEETS AT CENTER FOR THE STUDY OF CRIME		
	JUVENILE DELIN	04.0 CR	
	PREREQ SOC 302 CR CONSENT OF INSTR		
1	TO BE ARRANGED		EYNON
	MEETS AT CENTER FOR THE STUDY OF CRIME		
2	06.00-09.30 PM M CL	326	CAMP
481	PROC IN SOC WORK	04.0 CR	
	PREREQ SOC 375 CR CONSENT OF INSTR		
1	03.00 MTWTH WHAM	112	BRELJE
486	INDEP STUDY COM DEV	01.0 TO 05.0 CR	
	PREREQ CONSENT CF INSTR		
1	TO BE ARRANGED		THOMAS
487	COMMUNITY DEVEL	04.0 CR	
	PREREQ 4 HRS SOC CR CCNSENT OF INSTR		
1	TO BE ARRANGED		THOMAS
489E	INDEPT STUDY CORRS	02.0 TO 04.0 CR	
	PREREQ CONSENT CF INSTR		
1	TO BE ARRANGED		JOHNSON
501	SURVEY SOCIOL THEO	04.0 CR	
	PREREQ SOC 451 CR CONSENT OF INSTR		
1	03.00-04.15 TH H EC	120	MUNCH
	03.00-04.15 F WHAM	312	
521	SEM SOC PSYCH	04.0 CR	
	PREREQ SOC 426		
1	03.00-05.30 T WHAM	212	DUNCAN
562	DEVIANCE + DISORG	04.0 CR	
	PREREQ 15 HRS OF SOC CR CONSENT OF INSTR		
1	07.00-09.30 PM T WHAM	212	SNYDER
583	SUPER FIELD WK CORR	04.0 TO 12.0 CR	
	PREREQ CONSENT CF INSTR		
1	TO BE ARRANGED		JOHNSON
587	RESEARCH IN CD	02.0 TO 08.0 CR	
	PREREQ MAJOR IN COMMUNITY DEVEL		
1	TO BE ARRANGED		THOMAS
588A	SEM-COMM DEVELOPMNT	04.0 CR	
	PREREQ SOC 487 CR CONSENT OF INSTR		
1	TO BE ARRANGED		THOMAS
591	INDIVIDUAL RESEARCH	02.0 TO 06.0 CR	
	PREREQ CONSENT CF INSTR AND DEPT CHAIRMAN		
1	TO BE ARRANGED		
596	READINGS IN SOC	02.0 TO 12.0 CR	
	PREREQ CONSENT CF INSTR AND DEPT CHAIRMAN		
1	TO BE ARRANGED		
599	THESIS	02.0 TO 09.0 CR	
	PREREQ CONSENT CF DEPT CHAIRMAN		
1	TO BE ARRANGED		
600	DISSERTATION	01.0 TO 48.0 CR	
	PREREQ CONSENT CF DEPT CHAIRMAN		
1	TO BE ARRANGED		

## Special Education (SP E)

200	ORIENT ED EXC CHILD			02.0 CR	
1	10.00	T TH	WHAM	302	
2	02.00	M W	H EC	206	
3	02.00	T TH	LS I	16	
410A	PROB + CHAR-EMO CHI			04.0 CR	
	PREREQ SP E 414				
1	06.30-09.00 PM	T	LAWSON	201	
410B	PROB CHAR MENT RET			04.0 CR	
	PREREQ SP E 414				
1	03.00	MTWTH	WHAM	302	
410C	PROB CHAR GIFT CHLD			04.0 CR	
	PREREQ PSYC 301 CR 303 OR CONSENT OF INSTR				
1	06.30-09.00 PM	T	WHAM	326	
410D	PROB CHAR ACOUS HDC			04.0 CR	
	PREREQ PSYC 301 CR 303 OR CONSENT OF INSTR				
1	02.00	MTWTH	WHAM	301A	
411	ASS + REMED LRN DIS			04.0 CR	
	PREREQ SP E 414 AND CCNSENT OF INSTR				
1	06.30-09.00 PM	M	WHAM	206	
413A	DIR OBSER-EMOT DIST			04.0 CR	
	PREREQ CONSENT CF INSTR				
1	TO BE ARRANGED				
413B	DIR OB OF MR CHILD			04.0 CR	
	PREREQ CONSENT CF INSTR				
1	10.00-12.50	T	WHAM	326	
414	THE EXCEPT CHILD			04.0 CR	
	PREREQ PSYC 301 CR 303 OR CONSENT OF INSTR				
1	09.00	MTWTH	AG	166	
	UNDERGRADUATES ONLY				
2	01.00	MTWTH	WHAM	302	
	UNDERGRADUATES ONLY				
3	06.30-09.00 PM	TH	WHAM	308	MCKAY
	GRADUATES ONLY				
420A	MET + MAT-ED EM DIS			04.0 CR	
	PREREQ SP E 410A AND CONSENT OF INSTR				
1	04.00-06.00	T TH	WHAM	206	SHEA
420B	METH + MAT TEACH MR			04.0 CR	
	PREREQ SP E 410B AND CCNSENT OF INSTR				
1	02.00-03.50	T TH	WHAM	329	RAINEY
421	SPCH FOR ACOUS HDGP			04.0 CR	
	PREREQ SP+A 200				
1	09.00	MTWTH	COMM	117	CRITTENDEN
496	READ + INDEP STUDY			02.0 TO 08.0 CR	
	PREREQ SP E 414 AND CCNSENT OF STAFF				
1	TO BE ARRANGED				
501	SPEC RES PROB			04.0 CR	
	PREREQ CONSENT CF STAFF				
1	TO BE ARRANGED				
513	ORG ADM SP CLASSES			04.0 CR	
	PREREQ SP E 414				
1	06.30-09.00 PM	TH	WHAM	208	
517	ATYP CHILD SOC AGEN			04.0 CR	
	PREREQ SP E 414 CR CONSENT OF INSTR				
1	06.30-09.00 PM	W	WHAM	208	
577	PRACTICUM IN SP ED			04.0 TO 12.0 CR	
	PREREQ SP E 410A, B, C, OR D, AND CONSENT OF STAFF				
1	TO BE ARRANGED				
590	ED CH WITH MEN DEV			04.0 CR	
	PREREQ CONSENT CF INSTR				
1	TO BE ARRANGED				
	590 RESTRICTED TO PCST-MASTERS STUDENTS				
596	IND INVESTIGATION			05.0 TO 09.0 CR	
1	TO BE ARRANGED				
599	THESIS			02.0 TO 09.0 CR	
1	TO BE ARRANGED				
600	DISSERTATION			01.0 TO 48.0 CR	
1	TO BE ARRANGED				

## Speech (SPCH)

102	PUBLIC SPEAKING			04.0 CR	
	PREREQ GSD 103				



1	02.00	MTWTH	COMM	116	HIBBS
2	03.00	MTWTH	COMM	116	WILEY
104	TRAINING SPKG VOICE		04.0	CR	
	PREREQ GSD 103				
1	08.00	MT THF	COMM	111	FARGHER
202	PRIN OF DISCUSSION		03.0	CR	
1	11.00	MT TH	COMM	116	GODIEL
2	02.00	WTHF	COMM	122	POTTER
3	04.00	MT TH	COMM	116	WILEY
205	ARGUMENT DEBATE		04.0	CR	
1	10.00	MTWTH	COMM	112	KLEINAU MARVIN
2	06.00-09.40 PM	W	COMM	112	KLEINAU MARVIN
209	FORENSIC ACTIVITIES		01.0	CR	
	PREREQ CONSENT CF INSTR				
1	10.00-11.50	S	COMM	210	KLEINAU MARVIN
301	PERSUASION		04.0	CR	
1	03.00	M WTHF	COMM	122	SMITH
309	FORENSIC ACTIVITIES		01.0	CR	
	PREREQ CONSENT CF INSTR				
1	10.00-11.50	S	COMM	210	KLEINAU MARVIN
313	SPEECH COMPOSITION		04.0	CR	
	PREREQ SPCH 102				
1	01.00	TWTHF	COMM	116	BRENIMAN
323	ORAL INTERP II		04.0	CR	
	PREREQ GSC 200 CR CONSENT OF INSTR				
1	09.00	MTWTHF	COMM	112	
401	CREATIVE DRAMATICS		04.0	CR	
1	09.00	MTWTH	COMM	116	FENSTE
2	11.00	MTWTH	PULL	42	
406	TCHG SEC SCHL SPCH		04.0	CR	
	PREREQ 16 HRS OF SPCH				
1	08.00-09.50	T TH	COMM	214	SIMMS
407A	AMER PUBLIC ADDRESS		04.0	CR	
1	10.00-11.50	T TH	COMM	214	BRADLEY
422	ORAL INTERP PROSE		04.0	CR	
	PREREQ GSC 200, SPCH 323 OR CONSENT OF INSTR				
1	11.00	MTWTH	COMM	122	KLEINAU MARION
425	TECH DISC LDRSHIP		03.0	CR	
1	10.00	MT THF	COMM	116	POTTER
428	COMM THEORIES + MOD		04.0	CR	
1	TO BE ARRANGED				
434	LEC + LEC RECITAL		04.0	CR	
	PREREQ 12 HRS PUB SPEAKING, INTERP, OR THEATRE				
1	02.00-04.50	W	COMM	214	KLEINAU MARION
450A	LAB INTERPER COM		04.0	CR	
1	02.00-03.50	T TH	COMM	214	PAGE
500	SURV CLASSICAL RHET		04.0	CR	
1	10.00-11.50	M W	COMM	214	MICKEN
507A	STUDIES IN PUB ADD		03.0	CR	
	PREREQ SPCH 407A AND B				
1	09.00-11.50	F	COMM	214	BRADLEY
511A	TEACH COLL SPEECH		02.0	CR	
1	01.00	M W	COMM	214	SMITH
530	RESEARCH PROBLEMS		01.0 TO 04.0	CR	
1	TO BE ARRANGED				BRADLEY
532A	RESEARCH IN SPEECH		02.0	CR	
1	01.00	T TH	COMM	214	BRADLEY
599	THESIS		02.0 TO 09.0	CR	
1	TO BE ARRANGED				MICKEN
600	DISSERTATION		01.0 TO 48.0	CR	
1	TO BE ARRANGED				MICKEN

### Speech Pathology and Audiology (SP & A)

100	SPEECH CLINIC		00.0 TO 02.0	CR	
1	TO BE ARRANGED				FARGHER
104	TRAINING SPK VOICE		04.0	CR	
1	08.00	MT THF	COMM	111	FARGHER
200	PHONETICS		04.0	CR	
1	02.00	MTWTH	COMM	111	GARBUTT
212	ARTIC PROB DELAY SP		04.0	CR	
	PREREQ SP + A 200 OR CONCURRENT ENROLLMENT IN 200				
1	11.00	MT THF	COMM	111	

400	IND STUDY-SP+A	01.0 TO 04.0 CR		
	PREREQ ADVANCED STANDING			
1	TO BE ARRANGED			HOSHIKO
405A	PRAC SP + HEAR THER	02.0 TO 04.0 CR		
	PREREQ JUNIOR STANDING IN DEPARTMENT			
1	02.00 T TH	COMM 117	PACE	
409	RES TECH SPEECH SCI	04.0 CR		
	PREREQ ADVANCED SPEECH STUDENTS OR CONSENT OF INSTR			
1	01.00 MT THF	COMM 111	BRUTTEN	
416	INTRO TO AUDIOLOGY	04.0 CR		
	PREREQ JR STANDING OR CONSENT OF INSTR			
1	09.00 MT THF	COMM 111	COPELAND	
428	SP CORR FOR CL TCH	04.0 CR		
	PREREQ PRACTISING TEACHER, SR OR GRAD IN EDUC			
1	03.00 MT THF	COMM 111	GARBUTT	
515	READINGS IN SP+A	01.0 TO 04.0 CR		
	PREREQ ADVANCED STANDING			
1	TO BE ARRANGED			BRACKETT
520	SEM-PHYSIOL ACOUST	04.0 CR		
	PREREQ SP+A 406, 416			
1	10.00-11.50 M TH	COMM 117	COPELAND	
522A	SEM-ORG SPCH PROB	01.0 TO 04.0 CR		
	PREREQ GRAD STANDING IN DEPT			
1	03.00-04.50 M TH	COMM 113	KOEPP-BAKER	
529A	SEM IN ST BEHAVIOR	01.0 TO 04.0 CR		
	PREREQ CONSENT OF INSTRUCTOR			
1	03.00-04.50 T F	COMM 117	BRUTTEN	
530	RES PROB IN SP+A	01.0 TO 04.0 CR		
	PREREQ ADVANCED STANDING			
1	TO BE ARRANGED			HOSHIKO
534	SEM INSTRUMENTATION	01.0 TO 04.0 CR		
1	10.00-11.50 T F	COMM 117	HOSHIKO	
599	THESIS	02.0 TO 09.0 CR		
1	TO BE ARRANGED			KOEPP-BAKER
600	DISSERTATION	01.0 TO 48.0 CR		
1	TO BE ARRANGED			BRACKETT

#### Technical & Industrial Education (TIED)

100	ORIENTATION	02.0 CR		
1	04.00 T TH	TECH A 111		
201A	VISUAL COMMUNICATNS	03.0 CR		
1	10.00 M F	PULL 17	KENNEKE LARRY	
	09.00-10.50 W	PULL 17		
2	10.00 M F	PULL 17		
	09.00-10.50 TH	PULL 17		
207	ENER CONV-POW TRANS	03.0 CR		
1	11.00 M W	PULL I 16	SULLIVAN JAMES	
	08.00-09.50 T	PULL I 16		
2	11.00 M W	PULL I 16	SULLIVAN	
	10.00-11.50 T	PULL I 16		
302	CONSTR MTDS PRI TCH	04.0 CR		
1	08.00-09.50 MTWTH	PULL I 109		
2	03.00-04.50 MTWTH	PULL I 109		
3	06.00-08.50 PM MT TH	PULL I 109		
303	DIVERSIFIED CRAFTS	04.0 CR		
1	10.00-11.50 MTWTH	PULL I 109	JENKINS JAMES	
2	01.00-02.50 MTWTH	PULL I 109	JENKINS JAMES	
3	06.00-08.50 PM M W	PULL I 109	JENKINS	
305A	MATERIALS-PROCESSES	04.0 CR		
1	08.00 M W	PULL 14	BORTZ RICHARD	
	08.00-09.50 F	PULL 14		
319	INDUSTRIAL INTERN	03.0 TO 24.0 CR		
	PREREQ CONSENT OF COORDINATOR			
1	TO BE ARRANGED			
408	T AIDS IN TECH ED	03.0 CR		
1	06.00-08.30 PM T	TECH D 130	KENNEKE LARRY	
419	STU TCH IN TECH PRC	08.0 TO 16.0 CR		
	PREREQ 9 QTR HRS PROFESSIONAL I ED-GRAD STUDENTS ONLY			
1	TO BE ARRANGED		STADT RONALD	
420A	ENTRPRS-MANMACH SYS	04.0 CR		
	PREREQ 20 HRS IN TECHNICAL AND INDUSTRIAL EDUCATION			
1	04.00 M W	PULL 14		
	03.00-04.50 F	PULL 14		

430	SPECIAL PROBLEMS	02.0 TO 08.0 CR			
	PREREQ CONSENT CF INSTRUCTOR				
1	TO BE ARRANGED				
465A	INDUSTRIAL SAFETY	04.0 CR			
1	10.00 MT THF	TECH A 222			
	CROSS-LISTED WITH ET 465A				
485	PRIN-PHIL VO TEC ED	03.0 CR			
	PREREQ STUDENT TEACHING OR CONSENT OF DEPARTMENT				
1	09.00-11.30 S	TECH D 130			RAMP WAYNE
487	PLAN TECH FACILITY	03.0 CR			
	PREREQ 12 HRS IN TECHNICAL SUBJECTS				
1	06.00-08.30 PM TH	TECH A 208			SULLIVAN JAMES A
491A	PRIN IND TEACHING	03.0 CR			
	PREREQ ONE-HALF CF CONCENTRATION MUST BE COMPLETED				
1	02.00 M W F	TECH D 130			ERICKSON JOHN
491B	PRIN IND TEACHING	03.0 CR			
	PREREQ 491A				
1	06.00-08.30 PM T	TECH A 210			
495	OCC ANALYSIS	03.0 CR			
	PREREQ 12 HRS IN TECHNICAL SUBJECTS				
1	06.00-08.30 PM W	TECH A 208			BORTZ RICHARD
505	SUPER OF IND ED	04.0 CR			
1	06.00-09.00 PM T	TECH A 122			ERICKSON JOHN
550	COL TCH IND-TEC SUB	04.0 CR			
1	06.00-09.00 PM W	TECH A 310			
570	SPECIAL INVESTIGAT	02.0 TO 06.0 CR			
1	TO BE ARRANGED				STADT RONALD
599	THESIS	01.0 TO 09.0 CR			
1	TO BE ARRANGED				STACT RONALD
<b>Theater (THEA)</b>					
111A	STAGING TECHNIQUES	03.0 CR			
1	09.00 M W F	COMM 137			HENDREN
	03.00-04.50 M	COMM 153			
2	09.00 M W F	COMM 137			
	03.00-04.50 W	COMM 153			
3	09.00 M W F	COMM 137			
	03.00-04.50 F	COMM 153			
111B	STAGING TECHNIQUES	03.0 CR			
1	12.00 M W F	COMM 161			HENDREN
	03.00-04.50 T	COMM 153			
2	12.00 M W F	COMM 161			
	03.00-04.50 TH	COMM 153			
111C	STAGING TECHNIQUES	03.0 CR			
1	03.00 MTWTHF	COMM 241			HARRISON
203	VOICE AND DICTION	04.0 CR			
1	11.00 MTWTH	COMM 112			HARRISON
207	FUNDS OF TH DES	04.0 CR			
1	10.00 MT THF	COMM 241			PAYNE
208	DRAMATIC ACTIVITIES	01.0 TO 03.0 CR			
1	07.35-09.00 PM T TH	COMM 161			ZOECKLER
213	STAGE MOVEMENT	03.0 CR			
1	12.00 MTWTHF	0813 101			
217	ACTING	04.0 CR			
1	01.00-02.50 T TH	COMM 161			HARRISON
2	01.00-02.50 T TH	COMM 137			
230	TECHNIQUES BALLET	02.0 TO 48.0 CR			
1	04.00-05.50 M W	0813 111			DAVIDSON
	04.00 T	0813 111			
	CROSS-LISTED WITH PEW 230				
240	THEO-TECH CONT DNCE	02.0 TO 24.0 CR			
1	02.00-03.50 MTWTH	GYM 206			
	CROSS-LISTED WITH PEW 240				
273	DANCE WORKSHOP	01.0 TO 06.0 CR			
1	07.00-09.00 PM T	0813 111			GRAY
	CROSS-LISTED WITH PEW 273				
305	STAGE MAKEUP	04.0 CR			
1	01.00 W F	COMM 143			
	10.00-11.50 S	COMM 143			
308	DRAMATIC ACTIVITIES	01.0 TO 03.0 CR			
1	07.35-09.00 PM T TH	COMM 161			ZOECKLER
311	INT TO PLAYWRITING	04.0 CR			
	PREREQ 1 COURSE IN DRAMATIC LITERATURE + CONSENT OF INSTR				



1	09.00	MTW F	WHAM	301A	MOE
312	HIST + PHIL DANCE		04.0	CR	
1	01.00	MTWTH	0813	111	DAVIDSON
	CROSS-LISTED WITH PEW 312				
322	THEATER PRACTICUM	02.0	TO 12.0	CR	
1	08.00-11.00	MTWTHF	COMM	137	ZOECKLER
	12.00-05.00	MTWTHF	COMM	137	
402A	PLAY DIRECTING		04.0	CR	
1	08.00-09.50	M W	COMM	161	PAYNE
2	01.00-02.50	M W	COMM	161	ABRAMS
404	THEATRE MANAGEMENT		04.0	CR	
1	12.00	MTWTH	COMM	112	ABRAMS
502	ADV DIRECTING		04.0	CR	
1	10.00	MT THF	COMM	161	
519	THEATRE PRACTICUM	01.0	TO 12.0	CR	
1	08.00-11.00	MTWTHF	COMM	137	ZOECKLER
	12.00-05.00	MTWTHF	COMM	137	
526	SEM IN THEATRE ARTS	03.0	TO 12.0	CR	
	PREREQ GRAD STANDING + CONSENT OF DEPT				
1	09.00-11.50	S	LAWSON	101	
530	RESEARCH PROBLEMS	01.0	TO 04.0	CR	
1	TO BE ARRANGED				
599	THESIS	01.0	TO 09.0	CR	
1	TO BE ARRANGED				

### Zoology (ZOOL)

102	GEN INVERT ZOOLOGY			05.0	CR
	PREREQ GSA 201B				
1	02.00	T TH	LS I	205	BLACKWELDER
	08.00-09.50	M W F	LS I	130	
2	02.00	T TH	LS I	205	BLACKWELDER
	10.00-11.50	M W F	LS I	130	
3	02.00	T TH	LS I	205	BLACKWELDER
	01.00-02.50	M W F	LS I	130	
4	02.00	T TH	LS I	205	BLACKWELDER
	03.00-04.50	M W F	LS I	130	
103	GEN VERT ZOOLOGY			05.0	CR
	PREREQ GSA 201 A + B				
1	08.00	M W	WHAM	308	GEORGE
	08.00-09.50	T TH S	LS I	208	
2	08.00	M W	WHAM	308	GEORGE
	10.00-11.50	T TH S	LS I	208	
3	08.00	M W	WHAM	308	GEORGE
	01.00-03.50	T TH	LS I	208	
4	08.00-09.00	M W	WHAM	308	GEORGE
	01.00-03.50	M W	LS I	208	
300	VERT EMBRYOLOGY			05.0	CR
	PREREQ ZOOL 202				
1	08.00	M W F	LS I	205	HAAS
	08.00-09.50	T TH	LS I	213	
2	08.00	M W F	LS I	205	HAAS
	10.00-11.50	T TH	LS I	213	
310	ANIMAL ECOLOGY			05.0	CR
	PREREQ ZOOL 102,103				
1	01.00	M W F	LS I	205	LEFEBVRE
	08.00-11.50	TH	LS I	204	
2	01.00	M W F	LS I	205	LEFEBVRE
	01.00-04.50	TH	LS I	204	
3	01.00	M W F	LS I	205	LEFEBVRE
	08.00-11.50	F	LS I	204	
322	PROBLEMS IN ZOOLOGY	02.0	TO 05.0	CR	
	PREREQ 4.25 GPA SENIOR STANDING AND APPROVAL OF DEPT OR FAC				
1	TO BE ARRANGED				
382	ZOOL SENIOR SEMINAR	05.0	TO 01.5	CR	
	PREREQ SENIOR STANDING				
1	01.00	T	LS I	205	STAHL
2	02.00	F	LS I	205	GEORGE
3	03.00	F	LS I	205	BEATTY
400	ANIMAL TAXONOMY		02.0	CR	
	PREREQ 1 YR OF BIO OR CONSENT OF INSTRUCTOR				
1	08.00	M W	AG	116	BLACKWELDER
401	GENETICS		05.0	CR	
	PREREQ 15 QRT HRS OF BIO SCIENCE AND CONSENT OF INSTRUCTOR				

1	09.00	M W F	WHAM	308	ENGLERT
	08.00-09.50	T TH	LS I	209	
2	09.00	M W F	WHAM	308	ENGLERT
	10.00-11.50	M F	LS I	209	
3	09.00	M W F	WHAM	308	ENGLERT
	01.00-02.50	M F	LS I	209	
4	09.00	M W F	WHAM	308	ENGLERT
	03.00-04.50	M F	LS I	209	
5	09.00	M W F	WHAM	308	ENGLERT
	10.00-11.50	T TH	LS I	209	
402	NAT HIST INVERT			04.0 CR	
	PREREQ 1 YR OF ZCCL INCLUDING 102				
1	03.00	T TH	LS I	205	BEATTY
	08.00-11.50	TH	LS I	130	
2	03.00	T TH	LS I	205	BEATTY
	08.00-11.50	S	LS I	130	
404	ZOOLOGY FIELD STUD			02.0 TO 08.0 CR	
	PREREQ CONSENT CF DEPT				
1	TO BE ARRANGED				
407	PARASITOLOGY			05.0 CR	
	PREREQ 1 YR OF ZCCL INCLUDING 102				
1	09.00	T TH	LS I	205	GARDIAN
	08.00-09.50	M W F	LS I	213	
2	09.00	T TH	LS I	205	
	10.00-11.50	M W F	LS I	213	
409	HISTOLOGY			05.0 CR	
	PREREQ ZOOL 202				
1	10.00	M W F	LS I	205	
	10.00-11.50	T TH	LS I	211	
415	LIMNOLOGY			04.0 CR	
	PREREQ 1 YR OF ZCCLOGY, INCLUDING ZOOL 102				
1	03.00	M W	LS I	205	STAHL
	08.00-11.50	S	LS I	204	STAHL
461	MAMMALOLOGY			04.0 CR	
	PREREQ 1 YR OF ZCCL INCLUDING 103				
1	02.00	M W	LS I	205	STAINS
	01.00-04.50	F	LS I	204	
463	WILDLIFE MANAGEMENT			04.0 CR	
	PREREQ 15 HRS OF BIOLOGICAL SCIENCE, CONSENT OF INSTRUCTOR				
1	08.00	T TH	LS I	205	KRULL
	08.00-11.50	F	LS I	208	
	FOR FORESTRY MAJ ONLY, ZCCL MAJ TAKE COURSE SPRING QTR				
2	08.00	T TH	LS I	205	KRULL
	01.00-04.50	F	LS I	208	
466	FISH MANAGEMENT			04.0 CR	
	PREREQ 15 HRS OF BIOLOGICAL SCIENCE, CONSENT OF INSTRUCTOR				
1	01.00	M W	LS I	204	LEWIS
	01.00-04.50	T	LS I	204	
512	ANIMAL GEOGRAPHY			03.0 CR	
	PREREQ CONSENT CF INSTRUCTOR				
1	11.00	M W F	LS I	205	STAHL
514	ADVANCED ENTOMOLOGY			04.0 CR	
	PREREQ ZOOL 471				
1	03.00	T TH	LS I	130	MCPHERSON
	03.00-04.50	M W	LS I	213	
542	OSTEOLOGY			03.0 CR	
	PREREQ CONSENT CF INSTRUCTOR				
1	01.00-02.50	T TH	LS I	211	GALBREATH
560	ADV WILDLIFE MGT			03.0 CR	
1	08.00	TWTH	LS I	211	KLIMSTRA
578	POPULATION GENETICS			04.0 CR	
	PREREQ CONSENT CF INSTRUCTOR				
1	10.00-11.50	T TH	LS I	205	ENGLERT
582A	GRADUATE SEMINAR			00.0 TO 00.5 CR	
1	04.00	TH	LS I	133	MARTAN
583A	TEACH ZOOL COLL			01.0 CR	
	PREREQ GRAD STATUS IN A BIO SCIENCE				
1	05.00	W	LS I	205	FISHER
596	SPECIAL RESEARCH			03.0 TO 12.0 CR	
	PREREQ CONSENT CF INSTRUCTOR				
1	TO BE ARRANGED				
599	THESIS			02.0 TO 09.0 CR	

1 TO BE ARRANGED  
 SEE BIOLOGY FOR CORE COURSE OFFERINGS  
 600 DISSERTATION 03.0 TO 48.0 CR  
 1 TO BE ARRANGED

## SCHEDULE OF VOCATIONAL-TECHNICAL INSTITUTE COURSES

COURSE & SECTION NO.	TITLE & HOURS	DAYS	BLDG. & RM.	INSTRUCTOR
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### General Studies Area A—Man's Physical Environment and Biological Inheritance (GSA)

101A	INTRO-PHYS SCIENCE		04.0 CR	
901	09.00	MTWTH	M3 103	
902	10.00	MTWTH	M3 101	COLLINS
903	11.00	MTWTH	M3 103	COLLINS
904	01.00	MTWTH	M3 103	
101B	INTRO-PHYS SCIENCE		04.0 CR	
901	12.00	MTWTH	F3 144	SMITH

### General Studies Area B—Man's Social Inheritance and Social Responsibilities (GSB)

201B	CULT-SOCIETY BEHAV		04.0 CR	
901	12.00	MTWTH	L3 109	
201C	CULT-SOCIETY-BEHAV		04.0 CR	
901	09.00	MTWTH	143	
902	10.00	MTWTH	143	
903	11.00	MTWTH	143	
904	12.00	MTWTH	143	
905	01.00	MTWTH	143	
906	03.00	MTWTH	AVTECH 101	
211A	POLITICAL ECONOMY		04.0 CR	
901	12.00	MTWTH	FI 106	CHOATE
902	02.00	MTWTH	FI 106	CHOATE
903	04.00	MTWTH	FI 106	CHOATE
211B	POLITICAL ECONOMY		04.0 CR	
901	09.00	MTWTH	H3 154	SHIN
902	11.00	MTWTH	AVTECH 101	SHIN
903	12.00	MTWTH	H3 154	CISSELL
904	01.00	MTWTH	H3 154	
905	03.00	MTWTH	H3 154	CISSELL
906	04.00	MTWTH	H3 154	CISSELL

### General Studies Area D—Organization and Communication of Ideas (GSD)

101	ENGLISH COMPOSITION		03.0 CR	
901	08.00	M W F	H3 153	
902	08.00	M W F	H3 154	
903	09.00	M W F	H3 153	
904	09.00	M W F	H9 101	
905	09.00	M W F	H3 153	
906	10.00	M W F	H3 153	
907	10.00	M W F	H3 154	
908	01.00	M W F	H3 153	
909	01.00	M W F	H9 101	
910	01.00	M W F	H4 233	
911	02.00	M W F	H3 153	
912	02.00	M W F	H3 154	
913	02.00	M W F	AVTECH 101	
914	03.00	M W F	H3 153	
915	03.00	M W F	H9 101	
916	04.00	M W F	H3 153	
102	ENGLISH COMPOSITION		03.0 CR	
901	08.00	M W F	H3 151	CHENCWETH
902	12.00	M W F	H3 153	CUNNINGHAM
103	ORAL COMM OF IDEAS		03.0 CR	
901	08.00	MTWTH	AVTECH 101	WORKUN
902	10.00	MTWTH	H9 101	WORKUN
903	11.00	MTWTH	H9 101	WORKUN
904	12.00	MTWTH	H9 101	BEAVEN
905	02.00	MTWTH	H9 101	BEAVEN



906	04.00	MTWTH	H9	101	BEAVEN
<b>Mathematics (MATH)</b>					
111A	COL ALGEBRA TRIG			05.0 CR	
901	09.00	MTWTHF	L3	109	VENABLE
902	03.00	MTWTHF	H3	151	
903	04.00	MTWTHF	H3	151	
<b>Accounting (*ACC)</b>					
101A	ACCOUNTING			06.0 CR	
1	08.00-09.50	MTWTHF	FI	111	
2	09.00-10.50	MTWTHF	FI	108	
3	10.00-11.50	MTWTHF	FI	111	
4	11.00-12.50	MTWTHF	FI	108	
5	01.00-02.50	MTWTHF	FI	111	
6	03.00-04.50	MTWTHF	FI	111	
104	SECRETARIAL ACCTG			05.0 CR	
1	12.00	MTWTHF	FI	111	RICHEY
109A	CALC MACH			03.0 CR	
1	09.00	MTWTHF	FI	113	CASE
2	11.00	MTWTHF	FI	113	JOHNSTON
3	02.00	MTWTHF	FI	113	KURUC
4	03.00	MTWTHF	FI	113	JOHNSTON
5	06.30-09.00 PM	T TH	FI	113	JOHNSTON
126	FUND OF BUSINESS			03.0 CR	
1	09.00	M W F	H4	233	RICHEY
2	07.00-08.30 PM	M W	FI	111	CASE
201A	ACCOUNTING			04.0 CR	
1	08.00	MTWTHF	FI	108	MARKWELL
226A	BUSINESS LAW			04.0 CR	
1	02.00	MTWTH	FI	108	CUNDIFF
226B	BUSINESS LAW			04.0 CR	
1	11.00	MTWTH	H4	233	CUNDIFF
227	OFFICE ADMIN + SUP			04.0 CR	
	PREREQ *ACC 126				
1	12.00	MTWTHF	H4	233	MARKWELL
<b>Architectural Drafting (*AD)</b>					
110A	ARCHITECT DRAFTING			05.0 CR	
	PREREQ MUST BE TAKEN IN A,B SEQUENCE				
1	08.00-11.50	M W F	MI	108	RUTLEDGE
2	01.00-04.50	M W F	MI	108	RUTLEDGE
3	01.00-04.50	M W F	HI	144	
146A	FREEHAND ARCH GRAPH			03.0 CR	
1	08.00-10.50	T TH	MI	108	LITTLE
2	01.00-03.50	T TH	MI	108	LETE
3	01.00-03.50	T TH	HI	144	LOUGEAY
147	HISTORY ARCHITECT			03.0 CR	
1	11.00	M W F	MI	112	LOUGEAY
2	01.00	M W F	MI	112	LOUGEAY
221A	ARCHITECTURAL DES			04.0 CR	
1	08.00-10.50	M W F	MI	113	LETE
2	01.00-03.50	M W F	MI	113	LITTLE
250A	MATERIALS + METHODS			04.0 CR	
1	08.00-11.50	T TH	MI	113	LETE
	11.00	W	MI	113	
2	01.00-04.50	T TH	MI	113	LITTLE
	11.00	W	MI	113	
258	STRUCTURAL ELEMENTS			04.0 CR	
	PREREQ *AD 153 CR CONSENT OF ADVISER				
1	12.00	MT THF	HI	144	
<b>Aviation Technology (*AT)</b>					
101	ARCFT RECIPROCAT PP			06.0 CR	
1	09.00	M W F	AVTECH	101	BURKEY
	10.00-12.50	M W F	AVTECH	102	
102	CARB + LUB SYSTEMS			06.0 CR	
1	02.00	M W F	AVTECH	103	
	09.00-12.50	T TH	AVTECH	102	
103	ARCFT ELECT GEN-ALT			06.0 CR	
1	08.00	MTWTHF	AVTECH	103	DAROSA
	09.00-10.50	M W F	AVTECH	102	
104	PROPELLORS			05.0 CR	

1	09.00	T TH	AVTECH	103	BURKEY
	02.00	F	AVTECH	101	
	10.00	T TH	AVTECH	102	
	12.00-01.50	T TH	AVTECH	102	
105	AIRCFT INSTRUMENTS			04.0 CR	
1	12.00	W	AVTECH	103	SCHAFFER
	04.00	T TH	AVTECH	101	
	02.00-03.50	T TH	AVTECH	102	
106	ARCFT IGN-START SYS			05.0 CR	
1	08.00	W	AVTECH	101	CANNON
	11.00	T TH	AVTECH	103	
	08.00-10.50	T TH	AVTECH	102	
107	FABRIC-WOOD-DOPING			04.0 CR	
1	09.00-10.50	W	AVTECH	103	DAVID
	12.00	TH	AVTECH	101	
	01.00-03.50	T TH	AVTECH	102	
2	02.00-04.50	M W	AVTECH	102	DAVID
	01.00	M W	AVTECH	101	
	08.00	F	AVTECH	101	
108	JET PROPULSION PP			06.0 CR	
1	01.00	M W F	AVTECH	103	CAROSA
	02.00-03.50	M W F	AVTECH	102	
	11.00	W	AVTECH	103	
109	POWERPLANT TESTING			04.0 CR	
1	11.00	M F	AVTECH	103	SCHAFFER
	08.00-10.50	M F	AVTECH	102	
110	AIRC STRUCT AND REP			03.0 CR	
1	10.00	M F	AVTECH	101	DAVID
	11.00	W	AVTECH	101	
2	04.00	T TH	AVTECH	103	DAVID
	12.00	T	AVTECH	101	
203	AERODYNAMICS			05.0 CR	
1	09.00	M F	AVTECH	101	CANNON
	10.00-11.50	M F	AVTECH	102	
	12.00	W	AVTECH	101	
2	01.00	T TH	AVTECH	101	CANNON
	02.00-03.50	T TH	AVTECH	102	
	12.00	F	AVTECH	101	
204	AIRCRAFT HYDRAULICS			05.0 CR	
1	08.00-09.50	TWTH	AVTECH	102	OHMAN
	10.00	TWTH	AVTECH	103	
2	09.00	M F	AVTECH	103	OHMAN
	10.00-12.50	M F	AVTECH	102	
	02.00	M	AVTECH	101	
205	PRESS, AIR COND SYS			03.0 CR	
1	02.00	T TH	AVTECH	101	OHMAN
	11.00-12.50	W	AVTECH	102	
2	04.00	T TH	AVTECH	103	OHMAN
	02.00-03.50	F	AVTECH	102	
206	METAL + PROCESSING			04.0 CR	
1	11.00	T TH	AVTECH	101	RITER
	08.00-10.50	T TH	AVTECH	102	
2	11.00	M F	AVTECH	101	RITER
	08.00-10.50	M F	AVTECH	102	
208	ARCFT FUEL SYSTEMS			02.0 CR	
1	03.00	TH	AVTECH	101	COLLETT
	08.00-09.50	T	AVTECH	102	
209	WT BALANCE INSPECT			06.0 CR	
1	10.00	MTWTHF	AVTECH	101	COLLETT
	08.00-09.50	M W F	AVTECH	102	
217	RADIO OPER-INSTALL			01.0 CR	
1	12.00	T	AVTECH	103	RITER
	12.00	M	AVTECH	101	
	11.00	W	AVTECH	102	
2	02.00	W	AVTECH	101	RITER
	10.00	W	AVTECH	102	
	09.00	W	AVTECH	101	
220	JET TRANS AIR SYS			03.0 CR	
1	02.00-03.50	T	AVTECH	101	COLLETT
	08.00-09.50	TH	AVTECH	102	
	01.00	F	AVTECH	101	
	03.00	TH	AVTECH	103	
230A	PRIVATE PILOT			02.0 CR	

1	12.00	M W F	TBA		PATCHETT
230B	PRIVATE PILOT			01.0 CR	
1	TO BE ARRANGED				PATCHETT
231	BASIC FLIGHT			03.0 CR	
	PREREQ *AT 230				
1	TO BE ARRANGED				PATCHETT
232	INTERMEDIATE FLIGHT			03.0 CR	
	PREREQ *AT 231				
1	TO BE ARRANGED				PATCHETT
233	ADVANCED FLIGHT			03.0 CR	
	PREREQ *AT 232				
1	TO BE ARRANGED				PATCHETT
234	INSTRUMENT FLIGHT			03.0 CR	
	PREREQ *AT 233				
1	TO BE ARRANGED				PATCHETT

### Automotive Technology (\*AUT)

101A	AUTO LAB--ENG			05.0 CR	
1	08.00-10.50	MTWTHF	L2	108	ROMACK
2	11.00-01.50	MTWTHF	L2	108	WHITE
101B	AUTO LAB-BR + STEER			05.0 CR	
1	08.00-10.50	MTWTHF	LI	108	JONES
101C	AUTO LAB-IGN + CARB			05.0 CR	
1	02.00-04.50	MTWTHF	L2	108	MCDONALD
125A	AUTO THE--ENGINES			05.0 CR	
1	01.00	MTWTHF	L2	105	ROMACK
2	02.00	MTWTHF	L2	105	WHITE
125B	AUTO THE-BR + STEER			05.0 CR	
1	03.00	MTWTHF	L2	105	JONES
125C	AUTO THE-IGN + CARB			05.0 CR	
1	09.00	MTWTHF	L2	105	MCDONALD
201A	AUTO LAB-POWER OPT			05.0 CR	
	PREREQ 101C AND 125C				
1	01.00-03.50	MTWTHF	L2	102	KAZDA
201B	AUTO LAB-TRANS POWR			05.0 CR	
	PREREQ 101C AND 125C				
1	09.00-11.50	MTWTHF	L2	102	WILLEY
201C	AUTO LAB-DIAGNOSIS			05.0 CR	
	PREREQ 101C AND 125C				
1	02.00-04.50	MTWTHF	LI	108	SHELTON
220A	AUTO TH-POWER OPT			05.0 CR	
	PREREQ 101C AND	MUST BE	TAKEN CONCURRENTLY WITH 201		
1	04.00	MTWTHF	L2	105	KAZDA
220B	AUTO TH-TRANS POWER			05.0 CR	
	PREREQ 101C AND	MUST BE	TAKEN CONCURRENTLY WITH 201		
1	08.00	MTWTHF	L2	105	WILLEY
220C	AUTO TH-DIAGNOSIS			05.0 CR	
	PREREQ 101C AND	MUST BE	TAKEN CONCURRENTLY WITH 201		
1	11.00	MTWTHF	L2	105	SHELTON

### Commercial Art (\*CA)

101	ART ANALYSIS			03.0 CR	
1	08.00	M W F	L3	119	SWAYNE
2	01.00	M W F	L3	119	
125	TECHNIQUES			10.0 CR	
1	09.00-11.50	M W F	L3	119	SWAYNE
	08.00-11.50	T TH	L3	119	
2	01.00-04.50	T TH	L3	119	BOZA
	02.00-04.50	M W F	L3	119	
210A	ADVER + STORY ILLUS			08.0 CR	
1	08.00-11.50	M W F	L3	120	HOFFMAN
2	01.00-04.50	M W F	L3	120	RUYLE
230A	TECHNICAL ILLUST			07.0 CR	
1	08.00-11.50	T TH	L3	120	HOFFMAN
2	01.00-04.50	T TH	L3	120	RUYLE

### Correction and Law Enforcement (\*CLE)

103	INTRO CRIME CONT			04.0 CR	
1	06.30-09.30 PM	T	H3	153	
115A	INTERPER REL			03.0 CR	
1	06.30-09.00 PM	W	H3	153	
203	GROUP WORK TECH			04.0 CR	
1	06.30-09.30 PM	TH	H3	151	



205	PRIN OF INVEST				04.0	CR	
1	06.30-09.30 PM	TH	H3		153		
<b>Cosmetology (*COS)</b>							
101A	COSMETOLOGY LAB				07.0	CR	
1	08.00-10.50	MTWTHF	NI		101	HILL	
	02.00-04.50	MTWTHF	NI		101		
2	11.00-01.50	MTWTHF	NI		107	GCSS	
	03.00-05.50	MTWTHF	NI		107		
101B	COSMETOLOGY LAB				07.0	CR	
1	08.00-10.50	MTWTHF	NI		101	HILL	
	02.00-04.50	MTWTHF	NI		101		
125A	COSMETOLOGY THEORY				05.0	CR	
1	10.00	MTWTHF	NI		106	BLANTON	
2	11.00	MTWTHF	NI		106	BLANTON	
125B	COSMETOLOGY THEORY				05.0	CR	
1	12.00	MTWTHF	NI		106	BLANTON	
<b>Dental Hygiene (*DH)</b>							
130	ORIENT DENTAL HYG				02.0	CR	
1	08.00	M W	FI		110	PIERPOINT	
132A	HEAD NECK ANATOMY				04.0	CR	
1	09.00-10.50	M	FI		110	WILLIS	
	08.00-10.50		FI		110		
135A	ORAL BASIC SCIENCE				04.0	CR	
1	09.00-10.50	TW	FI		110	BUSHEE	
210A	CLINICAL DENTAL HYG				05.0	CR	
1	09.00-11.50	MTW F	F3		132		
	12.00		FI		110		
2	01.00-03.50	MTW F	F3		132		
	12.00		FI		110		
213A	DENTAL ASSISTING				03.0	CR	
1	09.00-11.50	TH	F3		144	CAVANESS	
2	01.00-03.50	TH	F3		144	CAVANESS	
217	DENT HEALTH EDUC				02.0	CR	
	PREREQ *DH 216, GSD 101A, 101B, 103, GSB					201C SOPH STND IN *DH	
1	12.00	M W	FI		110	JOHNSON	
218B	CLIN DENT ROENTGEN				02.0	CR	
1	09.00-10.50	TH	FI		110	BUSHEE	
2	02.00-03.50	TH	FI		110		
<b>Data Processing (*DP)</b>							
101A	AUTO DATA PROC MACH				05.0	CR	
1	08.00	MTWTHF	H4		134	FITZPATRICK	
	09.00	MTWTHF	H8		235		
2	01.00	MTWTHF	H4		134	DICK	
	02.00	MTWTHF	H8		235		
3	03.00	MTWTHF	H4		134	FITZPATRICK	
	04.00	MTWTHF	H8		235		
103A	COMP PROG				05.0	CR	
1	10.00	MTWTHF	H4		134	ROBB	
	11.00	MTWTHF	H8		235		
107	AUTO DP CONCEPTS				03.0	CR	
1	12.00	M W F	H4		134	ROBB	
	12.00	T TH	H8		235		
202A	INDUST COMPUT PROG				05.0	CR	
	PREREQ MATH 111A DP 103						
1	12.00	MTWTHF	H4		133		
	01.00	MTWTHF	H8		235		
203A	BUS COMP PROG				05.0	CR	
	PREREQ DP 103 AND 206A						
1	10.00	MTWTHF	H4		133	LOHMEIER	
	11.00	MTWTHF	H8		235		
2	03.00	MTWTHF	H4		133	LOHMEIER	
	04.00	MTWTHF	H8		235		
206A	PROG SYST				03.0	CR	
	PREREQ *DP 202, 203						
1	08.00	MTWTHF	H4		133	STARKEY	
	09.00	MTWTHF	H8		235		
2	01.00	MTWTHF	H4		133	STARKEY	
	02.00	MTWTHF	H8		235		

**Dental Lab Technology (\*DT)**

101A	DENTAL PROSTHET LAB			06.0	CR	
1	02.00-04.50	M W F	F3	128		
	01.00-04.50	T TH	F3	128		
2	02.00-04.50	M W F	F3	127	BYKOWSKI	
	01.00-04.50	T TH	F3	127		
125A	DENT PROSTH THEORY			03.0	CR	
1	01.00	M W F	FI	110	LEEbens	
201A	CROWN + BRIDGE LAB			06.0	CR	
1	09.00-11.50	M W F	F3	128	CHRISTY	
	08.00-11.50	T TH	F3	128		
2	09.00-11.50	M W F	F3	127	MORR	
	08.00-11.50	T TH	F3	127		
225A	CROWN + BRIDGE THEC			03.0	CR	
1	08.00	M W F	F3	128	CHRISTY	
2	08.00	M W F	FI	109	MORR	

**Electronics Technology (\*ELT)**

101A	BASIC ELEC AP + SYS			04.0	CR	
1	09.00-10.50	MTWTHF	M3	109	SCHULTZ	
2	02.00-03.50	MTWTHF	M3	109	BARNES	
125A	BASIC ELECT THEO			05.0	CR	
1	11.00	MTWTHF	M3	107	SCHULTZ	
2	11.00	MTWTHF	M3	110	BARNES	
127	BASIC TECH CONCEPTS			03.0	CR	
1	08.00	M W F	M3	110	CALDWELL	
2	09.00	M W F	M3	110	CALDWELL	
201B	ADV ELECT APPL			04.0	CR	
1	08.00-09.50	MTWTHF	M3	112	CORBELL	
2	01.00-02.50	MTWTHF	M3	112	CORBELL	
225B	ADV IND SYSTMS THEC			05.0	CR	
1	10.00	MTWTHF	M3	110	CALDWELL	

**Forest Products Technology (\*FP)**

101A	WOODWORK-MACHINE			05.0	CR	
1	09.00-11.50	M W F	L4	108	CARMAN	
	08.00-10.50	T TH	L4	108		
125A	PROD WOODWKG THEORY			03.0	CR	
1	08.00	M W F	L4	106	CARMAN	
128	WOOD TECH			04.0	CR	
1	12.00	M W	L4	106	OSBORN	
	11.00-12.50	T TH	L4	106		
129	WOOD FINISHING			03.0	CR	
1	02.00	M W F	L4	106	CARMAN	
201A	WOODWORK-LIGHT FR			05.0	CR	
1	02.00-04.50	MTWTHF	L4	108	OSBORN	
225A	PROD WOODWKG THEORY			03.0	CR	
1	01.00	M W F	L4	106	OSBORN	
232	WOOD PRESERVATION			02.0	CR	
1	08.00	T TH	L4	106	OSBORN	

**General (\*GEN)**

102	TECHNICAL WRITING			03.0	CR	
1	08.00	M W F	M3	103	CUNNINGHAM	
2	10.00	M W F	M1	112	CROWE	
3	12.00	M W F	M3	103	CROWE	
4	03.00	M W F	M3	103	CUNNINGHAM	
5	04.00	M W F	AVTECH	103	CROWE	
106	ELEM MATH			00.0	CR	
1	12.00	MTWTH	H3	151		
107A	BUS + TECH MATH			03.0	CR	
	PREREQ	SATISFACTORY ACT	MATH SCORE OR	*GEN 106		
1	10.00	M W F	H4	233		
2	11.00	M W F	H3	151		
3	01.00	M W F	H3	151		
4	02.00	M W F	H4	233		
107B	BUS + TECH MATH			03.0	CR	
	PREREQ	SATISFACTORY ACT	MATH SCORE OR	*GEN 106		
1	08.00	M W F	H3	151		
2	09.00	M W F	H3	151		
3	10.00	M W F	H3	151		
4	02.00	M W F	H3	151		
5	03.00	M W F	AVTECH	103		

115A	INTRO TO CHEMISTRY				04.0 CR	
	PREREQ DENTAL HYGIENE STUDENT OR				CONSENT OF ADVISOR	
1	01.00-02.50	M W F	F3	144	SMITH	
2	03.00-04.50	M W F	F3	144	SMITH	
120	APPLIED PHYSICS				04.0 CR	
	PREREQ GSA 101A,*GEN 107					
1	11.00	M W	M3	101	HARBISON	
	11.00-12.50	T TH	M3	101		
201	JOB ORIENTATION				02.0 CR	
1	08.00	T TH	FI	112	ELDER	
	RETAILING					
2	11.00	M F	H1	144	LETE	
	ARCHITECTURE					
3	01.00	T TH	FI	112	ELDER	
	RETAILING					
232	MGT-LABOR RELATIONS				04.0 CR	
1	01.00	MTWTH	AVTECH	101		
2	02.00	MTWTH	H1	143		

### Highway and Civil Technology (\*HCT)

101A	SURVEYING				05.0 CR	
1	01.00-04.50	MTWTH	WOODY	1016	COTE	
203	HYDR AND DRAIN				05.0 CR	
	PREREQ GSD 114					
1	10.00-11.50	MTWTHF	WOODY	1016	BASSETT	

### Mortuary Science (\*MS)

101A	FUNERAL HIST + CUST				03.0 CR	
1	08.00	M W F	L3	109	THORSELL	
202	RESTORATIVE ART				03.0 CR	
1	02.00	M W	L3	109	HERTZ	
	02.00-04.50	T	F3	144		
203	INTRO TO EMBALMING				03.0 CR	
	PREREQ CHEM 110,240,PHYSIOLOGY 300,GSA 301					
1	03.00	M W F	L3	109	THORSELL	
205A	PATHOLOGY				03.0 CR	
1	04.00	M W F	L3	109	HERTZ	

### Machine Drafting and Design Technology (\*MT)

101A	GRAPHICS				07.0 CR	
1	08.00-10.50	MTWTHF	MI	101	BEAUCHAMP	
2	02.00-04.50	MTWTHF	MI	101	LAMPMAN	
127	ELEC HYD PN CONTRLS				03.0 CR	
	PREREQ 101 VTI G 107					
1	08.00	M W F	LI	105	SANDERS	
175A	TECHNICAL DRAWING				03.0 CR	
1	09.00	MTWTHF	H3	147		
2	11.00	MTWTHF	H3	147	BEAUCHAMP	
3	02.00	MTWTHF	H3	147	BEAUCHAMP	
4	03.00	MTWTHF	H3	147		
5	03.00-04.50	M W	AVTECH	101		
	03.00	F	AVTECH	101		
201A	MACH DRAFTG DESIGN				05.0 CR	
	PREREQ 101,225 AND GSD 114 CONCURRENTLY OR CONSENT OF ADVIS					
1	11.00-01.50	MTWTHF	MI	101	MUICH	
225	KINEMATICS				03.0 CR	
	PREREQ 101,AND GSC 114,VTI D 201A CONC OR CONSENT OF ADVS					
1	10.00	M W F	H3	147	LAMPMAN	
226A	STAT STRENGTH MAT				02.0 CR	
	PREREQ D201 CONCURRENTLY,GSD 114C OR CONSENT OF ADVISER					
1	09.00	T TH	H3	151	LAMPMAN	
2	10.00	T TH	H3	151	LAMPMAN	

### Practical Nursing (\*PN)

101	BASIC NURSING				06.0 CR	
1	08.00-11.50	M F	H5	210		
	10.00-11.50	TWTH	H5	210		
	01.00-03.50	T TH	H5	210		
103B	CLINICAL NURSING				12.0 CR	
1	08.00-03.50	MTWTH	WOODY	1	CHIODINI	
	08.00-11.50	F	H9	201		
	01.00-03.50	F	H9	201		
131	NUTRITION-PRACT NUR				04.0 CR	



1	01.00-03.50	M W	WOODY	1012	KOENECKE
132	HEALTH			05.0 CR	
1	08.00-09.50	TWTH	H5	210	MITCHELL
	01.00-03.50	F	H5	210	

### Printing Technology (\*PT)

101A	PRESS LAB-HAND PLAT			06.0 CR	
1	02.00-04.50	MTWTHF	L3	110	BRITT
	AUTO PLATEN				
125A	PRESS THE-HAND PLAT			03.0 CR	
1	01.00	M W F	L3	109	BRITT
	AUTO PLATEN				
201A	COMPOSITION LAB			06.0 CR	
1	08.00-10.50	MTWTHF	L3	110	CORNELL
225A	COMPOSITION THEORY			03.0 CR	
1	11.00	M W F	L3	109	CORNELL

### Physical Therapy (\*PTH)

100A	PHYS THERAPY ORIENT			03.0 CR	
	PREREQ NONE				
1	01.00	M	WHAM	301A	OKITA
200	PHYS THER SCI PRACT			03.0 CR	
	PREREQ PTH 100-3				
1	03.00	M W F	WHAM	124	OKITA
203	PATHOLOGY			02.0 CR	
	PREREQ GSA 301A, PHSL 300				
1	04.00	M W F	L3	109	HERTZ
213	THERAPEUTIC MODALIT			03.0 CR	
	PREREQ GSA 101, GSA 301				
1	03.00	M W F	WHAM	124	OKITA

### Retailing, Cooperative (\*RET)

124	INTRO TO RETAILING			04.0 CR	
1	09.00	MTWTH	FI	112	ELDER
176	PRODUCT ANALYSIS			03.0 CR	
1	01.00	M W F	FI	112	ELDER
177A	PRODUCT INFO LAB			05.0 CR	
1	10.00-11.50	MTWTHF	FI	112	ELDER
2	02.00-03.50	MTWTHF	FI	112	
201A	CO-OP WORK EXP			08.0 CR	
1	TO BE ARRANGED				SODERSTROM
2	TO BE ARRANGED				THOMPSON

### Secretarial (\*SCR)

101A	TYPEWRITING			03.0 CR	
1	10.00	MTWTHF	FI	121	
101C	TYPEWRITING			03.0 CR	
1	07.00-08.30 PM	T TH	FI	107	
104A	SHORTHAND			06.0 CR	
1	10.00	MTWTHF	FI	106	
	11.00	MTWTHF	FI	121	
2	01.00-02.50	MTWTHF	FI	1210	
107	FILING + DUPLICTG			03.0 CR	
	PREREQ 101A OR CCNSENT OF ADVISER				
1	08.00	MTWTH	FI	103	MIRIANI
2	01.00	MTWTH	FI	103	GARRISON
120A	MACHINE SHORTHAND			06.0 CR	
1	11.00-12.50	MTWTHF	FI	102	GARRISON
205A	TYPEWRITING			03.0 CR	
1	08.00	MTWTHF	FI	107	NORMAN
2	10.00	MTWTHF	FI	107	GARRISON
3	01.00	MTWTHF	FI	107	MIRIANI
206	MACH TRANSCRIPTION			03.0 CR	
1	06.30-10.30 PM	W	FI	102	
209A	SHORTHAND			06.0 CR	
1	09.00-10.50	MTWTHF	FI	102	MIRIANI
2	02.00-03.50	MTWTHF	FI	107	CASE
214	COOP SEC EXP		02.0 TO	05.0 CR	
1	TO BE ARRANGED				JOHNSTON
223	SECRETAR OFF PROC			05.0 CR	
1	12.00	MTWTHF	FI	121	
225A	MEDICAL SHORTHAND			06.0 CR	
1	08.00-09.50	MTWTHF	FI	121	TOOLEY

# Tool and Manufacturing Technology (\*TT)

101A	M	TOOL LAB-ENG BEN			05.0	CR		
1		10.00-12.50	MTWTHF	LI		101	SANDERS	
2		02.00-04.50	MTWTHF	LI		101	MURDOCK	
2		02.00-04.50	MTWTHF	LI		101	MURDOCK	
125A	M	TOOL THE-INTRO			03.0	CR		
1		01.00	M W F	MI		107	MURDOCK	
176A		MANUFACTURING PROC			03.0	CR		
1		10.00	M W F	MI		107	MURDOCK	
2		11.00	M W F	MI		107	TRAYLOR	
176B		MANUFACTURING PROC			03.0	CR		
1		02.00	M W F	MI		107	TRAYLOR	
201A	ADV T	LAB-TOOL-DIE			03.0	CR		
1		08.00-09.50	M W F	LI		101	TRAYLOR	
225A	AD M	TOOL THE-QUAL			03.0	CR		
1		03.00	M W F	MI		107	TRAYLOR	
275B		METALLURGY-FERROUS			03.0	CR		
1		02.00	MTWTHF	M4		102	CALLMAN	
2		03.00	MTWTHF	M4		102	CALLMAN	

## Welding (\*WEL)

101A		WELDING LABORATORY			05.0	CR		
1		08.00-10.50	MTWTHF	M4		107	WILLIAMS	
101B		WELDING LABORATORY			05.0	CR		
1		08.00-10.50	MTWTHF	M4		108	TREGONING	
101C		WELDING LABORATORY			05.0	CR		
1		08.00-10.50	MTWTHF	M4		108	TREGONING	
125A		WELDING THEORY			05.0	CR		
1		01.00	MTWTHF	M4		102	WILLIAMS	
125B		WELDING THEORY			05.0	CR		
1		01.00	MTWTHF	M4		108	TREGONING	
175		OXY-ACET-ELEC ARC			03.0	CR		
1		11.00	MTWTHF	M4		107	WILLIAMS	
2		03.00-04.50	M W F	M4		107	TREGONING	

This form is provided for your use in establishing a tentative 2. Avoid scheduling two classes at the same time.

This form is provided for your use in establishing a tentative class schedule before coming to the Registration Center.

**2. Avoid scheduling two classes at the same time.**

3. It is suggested that you make an alternative schedule.

4. Tentative class schedules are subject to the rules and policies on registration of the University and the Registration Center.

[illegible]











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[illegible]











Southern Illinois University  
*Bulletin*

*1969/1970 Graduate School Catalog*  
*Carbondale Campus*

SIU

## OBJECTIVES OF SOUTHERN ILLINOIS UNIVERSITY

### TO EXALT BEAUTY

*In God,  
in nature, and  
in art;  
Teaching how to love the best  
but to keep the human touch;*

### TO ADVANCE LEARNING

*In all lines of truth  
wherever they may lead,  
Showing how to think  
rather than what to think,  
Assisting the powers  
of the mind  
In their self-development;*

### TO FORWARD IDEAS AND IDEALS

*In our democracy,  
Inspiring respect for others  
as for ourselves,  
Ever promoting freedom  
with responsibility;*

### TO BECOME A CENTER OF ORDER AND LIGHT

*That knowledge may lead  
to understanding  
And understanding  
to wisdom.*

# Southern Illinois University *Bulletin*

*1969/1970 Graduate School Catalog*  
*Carbondale Campus*



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# University Calendar

<i>SPRING, 1969</i>	Quarter Begins	Wednesday, March 26 *
	Memorial Day Holiday	Friday, May 30
	Final Examinations	Wednesday–Tuesday, June 4–10
	Commencement (Edwardsville)	Tuesday, June 10
	Commencement (Carbondale)	Wednesday, June 11
<i>SUMMER, 1969</i>	Quarter Begins	Tuesday, June 17 *
	Independence Day Holiday	Friday, July 4
	Final Examinations	Monday–Friday, August 25–29
	Commencement (Edwardsville)	Friday, August 29
	Commencement (Carbondale)	Saturday, August 30
<i>FALL, 1969</i>	New Student Week	Sunday–Tuesday, September 21–23
	Quarter Begins	Wednesday, September 24 *
	Faculty Meeting (Carbondale)	Saturday, October 4
	Homecoming (Carbondale)	Thursday– Saturday, October 23–25
	Homecoming (Edwardsville)	Thursday– Saturday, October 30–November 1
	Parents' Day	Saturday, November 15
	Thanksgiving Vacation	Tuesday, 10 P.M.– Monday, 8 A.M., November 25–December 1
	Final Examinations	Monday–Saturday, December 15–20
	Quarter Begins	Monday, January 5 *
	Final Examinations	Monday–Saturday, March 16–21
<i>SPRING, 1970</i>	Quarter Begins	Monday, March 30 *
	Memorial Day Holiday	Friday, May 29
	Final Examinations	Monday–Saturday, June 8–13
	Commencement (Carbondale)	Friday, June 12
	Commencement (Edwardsville)	Saturday, June 13

\* Classes begin with the evening classes after 5:30 P.M. on the Carbondale campus and with the evening classes after 4:30 P.M. on the Edwardsville campus.

# Board of Trustees and Officers of Administration

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# 1 / The Graduate School

## **The Role of the Graduate School**

The primary concern of the Graduate School is the basic and applied research work carried on in all sectors of the University. The Graduate School therefore plays an essential role in the development of instructional and research programs, in the acquisition of funds, and in the procurement of facilities necessary to encourage and support the research of the members of its scholarly community. In addition, the Graduate School is a major contributor to the public services provided by the University to the region, the state, the nation, and a number of other countries. In all of its programs of instruction and research, the Graduate School sets a high standard of achievement. It is in those students who have demonstrated this quality of excellence by completing advanced courses of study and by achieving significant results in their research that the Graduate School makes its major contribution to the public welfare.

## **Research**

Research is the special concern of the Graduate School because its faculty must engage in scholarly research activities to maintain its effectiveness and also because advanced instruction of graduate students consists mainly of guidance in research. For these reasons, University policies governing research are developed by the Graduate School and administered through it.

The Office of Research and Projects has been established in the Graduate School to assist in the continuing development of the research activities of the University. University support for individual research projects is available to faculty members through the special research projects program administered by this office. The Office of Research and Projects also supervises cooperative research projects and particularly assists applicants in the preparation and submission of research proposals that involve outside support from such sources as government, foundations, business, and industry.

## **Morris Library**

Morris Library contains nearly 1,000,000 volumes and subscribes to more than 10,000 periodicals. An average of 80,000 volumes is added to the collection each year.

Supplementing the resources of Morris Library is the Center for Research Libraries, Chicago, in which the University holds membership. A card file on the center's some 2,000,000 volumes is available for consultation.

The Morris Library has special strength in those fields where doctoral programs are offered. Its holdings in American and British literature and



history in the 19th and 20th centuries are especially noteworthy. They include the Fred J. Kern collection of some 5,000 volumes dealing largely with materials on controversial political and social issues during the past fifty years; the Philip D. Sang collection of American and British fiction; books and manuscripts on Walt Whitman and Henry David Thoreau from the Charles E. Feinberg Library; and a rapidly expanding collection of federal, state, British, and United Nations documents.

The library's collection on American and British law provides most of the basic works for legal reference and research. Morris Library also has files of major American newspapers and selected foreign papers, a collection of more than 100,000 maps, and an extensive file of curriculum material relating to school systems in the United States.

In various forms of microtext, the library now has or is purchasing:

1. The text of some 30,000 books, pamphlets, broadsides published in America from 1639 to the end of 1800 (*Evans' American Bibliography*).

2. The text of early English imprints (1475–1700) (*Short Title Catalogues*) and about sixty English literary periodicals of the 17th through 19th centuries.

3. Some 5,600 English and American plays of the 16th through 18th centuries.

4. Files of ninety-one American periodicals of the 18th century and several hundred of the 19th century.

5. Papers of the American Presidents and the American consuls abroad.

6. British sessional papers of the 19th century; French Chamber of Deputies and German Reichstag and Bundestag debates that have been issued on film.

7. The presidential and personal papers of Ulysses S. Grant.

8. Educational research documents distributed by ERIC clearinghouse.

A major source for research in the behavioral sciences is the Human Relations Area Files, consisting of copies of about 1,500,000 documents, books, articles, field reports, and unpublished manuscripts covering 170 world cultures and taken from more than 3,000 sources.

The library's Irish Renaissance holdings include books, letters, and manuscripts of James Joyce, W. B. Yeats, Lady Augusta Gregory, A. E. (George Russell), Lennox Robinson, Sean O'Casey, Katharine Tynan, and other literary and political figures of the late 19th and early 20th centuries.

Morris Library recently acquired most of the prose manuscripts of Robert Graves and the family papers of Richard Aldington. Some 300 American and British writers, members of the expatriate group who lived and worked in Paris between the world wars, are represented in two notable collections of books and manuscripts—the Philip Kaplan and Caresse Crosby Collections, the latter containing the files of the Black Sun Press. Besides books and little magazines, there are numerous letters and manuscripts of such writers as Kay Boyle, Hart Crane, Floyd Dell, Ernest Hemingway, Lawrence Durrell, Ford Madox Ford, D. H. Lawrence, Henry Miller, Ezra Pound, and Dylan Thomas.

Beginning with the acquisition of the 7,000 volume library of Dr. Jose Mogravejo Carrion of Ecuador in 1960, Morris Library has systematically expanded its holdings in Latin American history, government, literature, and anthropology. Extensive files of Latin American serial publications from Argentina, Bolivia, Paraguay, Uruguay, Cuba, and Mexico provide a rich source for graduate study and research. Many of

the publications in this collection are unavailable elsewhere in the United States.

In support of graduate studies in the sciences, the library has expanded its current subscriptions and back files of journals and has been acquiring the publications of learned societies and foreign academies, including the Royal Society of London, the academies of Paris, Berlin, Munich, Leipzig, Amsterdam, Gottingen, Rome, and St. Petersburg.

The extensive scientific journal collection of the Argonne National Laboratory and the Center for Research Libraries in Chicago are available to graduate students in person or on interlibrary loan. Arrangements have also been made for the library to secure technical reports from the U.S. Defense Documentation Center, the National Aeronautics and Space Administration, and the Atomic Energy Administration, as these are needed for research.

Other major resources of Morris Library include a collection of works by and about John Dewey; the R. Buckminster Fuller archives, comprising an extensive file of papers, correspondence, manuscripts, drawings, and models of the internationally known engineer and designer; the archives of philosopher-theologian Henry Nelson Wieman, including a number of unpublished works; the theater archives of Mordecai Gorelik, John Howard Lawson, and Katherine Dunham; and a growing body of documents relating to local and regional history—family and business papers, town and county records.

### **Data Processing and Computing Center**

The Data Processing and Computing Center at Southern Illinois University provides service to faculty and students engaged in research. The center is located in the basement of the Wham Education Building and is equipped with an IBM 7044, one IBM 1620, and two IBM 1401 computers. A variety of sorting and tabulating equipment is also available. The center also has an MRC Docutran optical scanner for processing information directly from coded sheets.

Arrangements can be made for both faculty members and graduate students to avail themselves of the services and facilities of the center at no cost.

### **University Placement Services**

The University Placement Services assists students seeking employment after completion of their education. Its facilities are free to students, who are urged to register or up-date their papers during the fall quarter of each academic year. All inquiries concerning this service should be made to the Director of the University Placement Services.

### **Housing**

Single graduate students will generally find it desirable to locate private housing facilities. The Housing Information Center maintains current information on rooms, apartments, houses for rent or sale, and trailer parks and can assist in locating accommodations. All arrangements for housing and all business transactions in the matter of housing are the sole responsibility of the student and the owner of the housing facility.



Current information concerning housing facilities for off-campus married students is available in the Housing Information Center. Experience has shown that satisfactory arrangements cannot be made by mail. A personal visit is usually required. Prices vary widely, ranging from \$20 per month for trailer spaces to \$150 or more per month for houses and apartments.

University housing for married students includes 304 unfurnished two- and three-bedroom apartments, 272 furnished efficiency one- and two-bedroom apartments, and a 53-space trailer court.

The University is planning for a Graduate Residence Center which in the first phase will accommodate approximately 500 single graduate students. Because the demand for University housing for married students exceeds the supply, information should be requested early from Housing Business Services.

### **Health Services**

The University maintains an infirmary which provides limited medical care for students, including 24-hour emergency service.

### **Financial Assistance**

#### *Fellowships, Preceptorships, and Assistantships*

Graduate fellowships are available in all areas of graduate study upon application to the appropriate chairman, and are awarded by the Graduate School upon the basis of scholarship. Recipients are permitted to carry normal graduate schedules. The award is normally made for four consecutive quarters; for master's degree students the stipend is \$235 per month, or \$2,820 for the four quarters; for doctoral degree students the stipend is \$250 per month or \$3,000 for four consecutive quarters. There is a remission of tuition but not other fees. There is no service requirement. All application materials should be submitted to the student's major department chairman before February 1 preceding the academic year for which the fellowship is desired. Inquiries may be addressed to the major chairman or to the dean of the Graduate School.

Special doctoral assistantships are available for students who hold the master's degree or its equivalent, and who have been admitted to one of the doctoral programs. Application is made to the appropriate chairman, and the awards are made by the Graduate School upon the basis of scholarship. The award is normally made for four consecutive quarters and carries a stipend of \$280 per month, or \$3,360 for four quarters. There is a remission of tuition but not other fees. There is a service requirement, with the specific duties to be assigned by the chairman of the department. Application deadlines and procedures are the same as for graduate fellowships.

A number of preceptorships are offered by the University to students who are excellent teachers as well as superior scholars. These positions pay a stipend which ranges from \$275 to \$350 per month for the academic year, with the exact amount depending upon the assignment, experience, and academic achievement. Remission of tuition is granted, but fees must be paid. Service of 20 hours per week, or corresponding load in teaching, is required. Preceptors must carry no more than 12 hours and no less than 6 hours of credit per quarter. Inquiries should be addressed to the ap-



propriate chairman before February 1 preceding the academic year for which the assignment is sought.

Teaching, research, and graduate assistantships are available in a number of departments and research agencies. These positions pay stipends which range from \$225 to \$325 per month, with the exact amount depending upon the assignment, experience, and academic advisement of the student. Rules applying to tuition, fees, and workloads are the same as those for preceptorships.

National Defense Education Act Title IV fellowships are available to outstanding students in some departments offering doctoral work. Awards are for three years with academic year stipends beginning at \$2,000 and rising to \$2200 and then \$2400 in successive years, plus a dependency allowance. An additional amount is available for the summer. Traineeships through the National Science Foundation are also available to outstanding students in some doctoral fields in the physical, biological, and social sciences. Stipends for twelve months begin at \$2400 and rise in successive years to \$2600 and then \$2800, with an additional dependency allowance in each case. Inquiry for each of these should be made to the chairman concerned, or directly to the dean of the Graduate School.

*Student Work and Financial Assistance Office*

The University maintains an Office of Student Work and Financial Assistance through which work on and off campus, cooperative work-study programs, summer employment, the federal work-study programs, and scholarships, awards, prizes, grants-in-aid, private agency awards, and student loan funds are negotiated.

Additional information may be obtained from the director of Student Work and Financial Assistance program.

**Tuition and Fees**

The tuition and fees charged students are established by the Board of Trustees and are subject to change whenever conditions make changes necessary. At the present time, fees per quarter for graduate students are as follows:

	Not more than 5 hrs.	More than 5, less than 11	11 or more
Tuition Fee—Illinois Resident . . . . .	\$14.00	\$28.00	\$42.00
Tuition Fee—Out of State . . . . .	(30.00)	(115.00)	(172.00)
Student Welfare and Recreation			
Building Trust Fund Fee . . . . .	5.00	10.00	15.00
Student Activity Fee . . . . .	3.50	7.00	10.50
University Center Fee . . . . .	5.00	5.00	5.00
Athletic Fund Fee . . . . .	3.00	6.50	10.00
<i>Total</i> —Illinois Resident . . . . .	30.50	56.50	82.50
<i>Total</i> —Out of State Resident . . . . .	(46.50)	(143.50)	(212.50)

The tuition fee assessed beginning with fall quarter, 1969, will be increased for all students. The total fee charged an Illinois resident taking 11 or more hours will be \$107.50. The total for out of state residents taking 11 or more hours will be \$246.50.

The student activity fee includes the fees for limited hospitalization, entertainment, partial athletics, the student newspaper and yearbook, and such other privileges as may be provided.

Teaching, research, graduate assistants, and graduate fellows do not pay

tuition and have an option on paying the student activity fee. They pay other fees.

In addition to the above fees, a student is subject to certain other charges under the conditions listed below:

1. A matriculation fee of \$5, which is assessed a graduate student the first time he registers if he is not a graduate of Southern Illinois University.

2. A late registration fee, which is \$2 for the first day and which increases \$1 each day to a maximum of \$5 when a student registers after the regular registration period has ended.

3. A \$2 program-change charge whenever a student changes his program from the one for which he originally registered, unless the change is made for the convenience of the University.

4. A graduation fee of \$17; and, for doctoral candidates, a dissertation microfilming fee of \$30–\$47, depending upon the service selected.

5. Other charges which a student may incur are those for field trips, library fines, and excess breakage. A student taking a course involving use of materials, as distinct from equipment, will ordinarily pay for such materials.

### Graduate Degrees Offered

Graduate degrees are available in the following fields:

#### *Master of Arts*

Anthropology	Geology	Psychology
Art	Government	Rehabilitation
Behavior	History	Administration
Modification	Inter-American	Rehabilitation
Biological Sciences	Studies	Counseling
Botany	Journalism	Sociology
Chemistry	Linguistics	Speech
Economics	Mathematics	Speech Pathology and
English	Microbiology	Audiology
English as a Foreign	Philosophy	Theater
Language	Physical Sciences	Zoology
Foreign Languages	Physics	
Geography	Physiology	

#### *Master of Business Administration*

Business Administration

#### *Master of Fine Arts*

Art

#### *Master of Music*

Music

#### *Master of Music Education*

Music

#### *Master of Science*

Agricultural	Applied Science	Biological Sciences
Industries	Behavior	Botany
Animal Industries	Modification	Chemistry



Community  
Development  
Computer Science  
Design  
Economics  
Engineering  
Engineering  
Technology  
Forestry  
Geography  
Geology

Home Economics  
Journalism  
Mathematical  
Sciences  
Microbiology  
Physical Sciences  
Physics  
Physiology  
Plant Industries  
Psychology  
Rehabilitation

Administration  
Counseling  
Sociology  
Speech  
Speech Pathology and  
Audiology  
Technical and  
Industrial  
Education  
Theater  
Zoology

*Master of Science in Education*

College Student  
Personnel  
Educational  
Administration and  
Foundations  
Elementary  
Education  
Guidance and  
Educational  
Psychology

Health Education  
Higher Education  
Home Economics  
Education  
Instructional  
Materials  
Physical Education  
Recreation and  
Outdoor Education

Secondary Education  
Secretarial and  
Business Education  
Special Education  
Technical and  
Industrial  
Education

*Doctor of Philosophy*

Anthropology  
Botany  
Chemistry  
Economics  
Education  
English  
Geography  
Government

Home Economics  
Education  
Journalism  
Mathematical  
Sciences  
Microbiology  
Philosophy  
Physiology

Psychology  
Sociology  
Speech-Theater  
Speech Pathology and  
Audiology  
Zoology

**Admission to the Graduate School**

A student should obtain application forms from the Graduate School and submit application, together with transcripts and other supporting material, directly to the Graduate Admissions Office where it will be evaluated for compliance with Graduate School admission requirements. Only if these are met and if the student seeks a degree will the application be forwarded to the faculty in which the student indicates his desired major. The admission requirements of the Graduate School and the faculty must both be met before the student is admitted either conditionally or unconditionally, and both the Graduate School and the faculty may specify conditions. Several faculties require additional materials such as test scores or letters of recommendation. The student will be informed of his admission status after this process has been completed. Admission to the Graduate School is determined almost entirely by the calibre of the applicant's previous college work.

To permit sufficient time for application to be processed, these deadlines for receipt of applications and official transcripts have been set:

1. *The second Saturday in July for admission to the fall quarter*
2. *The last Saturday in October for the winter quarter*



3. *The last Saturday in January for the spring quarter*
4. *The last Saturday in March for the summer quarter*

Applications which are incomplete on the deadline date or are received later may be granted unclassified (non-degree) admission status for the quarter for which admission was originally sought. The application papers will continue to be processed for admission to a degree program only for the quarter following the one originally applied for. If the student decides to enter as an unclassified student, this will in no way influence the decision relative to his acceptance as a degree candidate. Whether work taken by a student who is unclassified because of late application will later count toward a degree will be decided by the Graduate School and the faculties concerned.

A student who wishes to enter the Graduate School immediately after graduation may submit his application when he is within one quarter or semester of graduation. He must submit a transcript showing the work he has completed, and when his final quarter or semester of undergraduate work is completed, a transcript of that work must also be submitted.

An undergraduate student who is within 16 quarter hours of a bachelor's degree may take courses for graduate credit by applying for admission to the Graduate School in the usual way. At the time of registration, he must also obtain the approval of the graduate dean to take such courses for graduate credit. He remains as undergraduate student officially until he completes his baccalaureate requirements.

A student who is applying for an assistantship or fellowship and who submits a transcript in support of that application must also submit an application for admission and transcripts directly to the Graduate School for admission processing.

#### *Admission to Graduate Study as an Unclassified Student*

A student may apply for admission to the University as an unclassified student when he does not seek a graduate degree or certificate, when he has applied too late for the quarter for which he seeks admission, or when he wishes to qualify for admission to a degree program because his scholastic record does not qualify him for conditional admission. A student who seeks admission as an unclassified graduate student must present evidence that he holds a bachelor's degree.

Qualifying work has been established in order that students whose undergraduate grade point averages are below the minimum required for admission to a master's program (3.4 on an  $A = 5.0$  scale) may prove themselves capable of better academic performance and thereby qualify for consideration for admission. Once a student has made formal application for admission to the Graduate School and has officially been informed that his grade point average is below the minimum requirement, he may then apply for admission as an unclassified graduate student to pursue qualifying work.

A student whose average is between 3.2 and 3.399 may qualify for consideration by earning a 4.0 or better in not less than 12 nor more than 24 quarter hours of 300- or 400-level courses and by passing the Graduate English requirement. If he earns a 4.0 in the first 12 quarter hours, that is all he is required to take. If he does not earn a 4.0 in the first 12 quarter hours, he may continue until he has a total of 24 quarter hours, in an attempt to raise the grade point average to 4.0.

A student whose average is between 3.0 and 3.199 may qualify for

consideration by earning a 4.0 or better in 24 quarter hours of 300- or 400-level courses and by passing the Graduate English requirement.

No applicant with an undergraduate grade point average below 3.40 may take more than 24 quarter hours in seeking to qualify for admission, and no more than one-half of the work should be taken in a single subject area.

Successful completion of this work does *not* assure the student of admission, but only of consideration by the department of his choice. It is solely the department's decision to accept the student into their master's degree program. Therefore, it is strongly suggested that the student seek the advice of the graduate adviser in the department before and while he is doing qualifying work.

### *Admission of International Students*

A student from abroad is subject to all requirements for admission established by the Graduate School. In addition, he must complete special forms pertaining to the admission of international students. For these admission forms and for other information concerning international students, inquiries should be sent to the Director of Foreign Admissions, Registrar's Office, Southern Illinois University, Carbondale, Illinois 62901.

International students whose native tongue is not English will be required to demonstrate proficiency in the English language through the following procedures.

1. A minimum score of 450 on the Test of English as a Foreign Language (TOEFL) will be required for consideration for admission. Information on this test and on the dates and places of testing may be obtained from the Educational Testing Service, Box 899, Princeton, New Jersey.
2. Students with a TOEFL score of 550 or more will be admitted unconditionally to the Graduate School, if other academic requirements have been met.
3. Students with a TOEFL score between 450 and 549 will be admitted to the Graduate School conditionally, pending the results of the following tests which will be taken upon the students' arrival at Southern Illinois University.
  - a. The Michigan Proficiency Test, administered by the Southern Illinois University Counseling and Testing Center.
  - b. An essay examination administered and graded by the Southern Illinois University Center for English as a Second Language (CESL).
  - c. When the results of these examinations deem it necessary, an oral examination administered by CESL.
4. Students who fail the locally-administered examinations will be required to take and pass intensive English proficiency work at CESL or its equivalent at some other institution before they will be admitted unconditionally to degree programs at the University or be allowed to take academic work counting towards a degree.

To allow ample time for visa and other departure procedures, the applicant should have his application and all supporting documents on file with the University no less than four months prior to his proposed entry date.

An international student must be enrolled in a program leading to a graduate degree. He cannot be admitted as an unclassified student.

If the above requirements are satisfactorily met and the student is ad-



mitted to a degree program, he will be required to certify to the University that he has adequate financial resources available to him to undertake and continue in a program of study.

## **Master's Degree Programs**

### *Admission*

In order to receive unconditional admission from the Graduate School for study at the master's level, the applicant must hold a bachelor's degree and have a grade point average of 3.70 or higher ( $A=5.00$ ).

A student with a grade point average of 3.40, but less than 3.70, may be granted conditional admission and will remain on conditional status until he earns 24 quarter hours of credit in graduate-level courses. At that time his academic record will be checked according to the retention policy stated below, to see whether his conditional status can be changed to unconditional.

The conditionally admitted student must satisfy the Graduate English requirement before completing more than 24 quarter hours. A department, faculty, or other degree-program unit may add its own conditions for admission regardless of the grade point average.

A student with an undergraduate grade point average below 3.40 may be admitted only as an unclassified student.

### *Retention*

Whenever a student's graduate grade point average falls below 4.0 his standing is in jeopardy. When a student has accumulated 24 quarter hours of work after admission to a degree program, and has eight or more quarter hours of *C* or below in 400 or 500 level courses, not balanced by *A* in 400- or 500-level courses, he will be dropped from the Graduate School and will not again be admissible to a degree program.

### *General Requirements*

Forty-eight hours of acceptable graduate credit are required for a master's degree, except in the Carbondale programs in fine arts, where 60 hours are necessary, and in behavior modification, psychology, rehabilitation counseling, and college student personnel work, where 72 hours are required. At least 24 hours must be earned in courses numbered 500 or above. No more than 16 hours earned for work done at another university, or in extension, or both together, may be counted toward the degree. An evaluation of transfer credit is made in every case and may result in a reduction of the credit offered. Only in unusual circumstances will transfer credit be given for work bearing a grade below *B*. No credit toward the degree may be earned by correspondence.

Only credit earned within a six-year period preceding the completion of requirements for the degree, whether at Southern Illinois University or elsewhere, will be counted toward the degree.

Ordinarily a graduate student is expected to select both a major and a minor field, but he may be permitted by his advisory committee and the dean of the Graduate School to concentrate his efforts in one particular area of study. The graduate major, in most fields, consists of a minimum of 30 hours of credit in the chosen area of study; some fields, however, require as many as 40 hours for the major, in which case no minor is re-



quired. The graduate minor consists of a minimum of 15 hours. A student may have a double major recorded upon completing the necessary number (60 hours) of designated courses.

Each candidate for a master's degree shall write a thesis except where a graduate program has been approved by the Graduate Council to provide for some other arrangement. The thesis may be counted for not more than 9 nor less than 5 quarter hours of credit. The subject of the thesis is to be reported to the Graduate School by the student and is to be approved by the chairman of the advisory committee and the dean of the Graduate School at least two quarters before the date of graduation. Two copies of the approved thesis (the original and first carbon) must be presented to the Graduate School at least three weeks prior to the date of graduation, to be bound and shelved in the library. For nonthesis programs, a research paper should show evidence of the student's knowledge of research techniques and should be based on a special project or specific courses as may be recommended by the advisory committee.

Each candidate for a master's degree is required to pass a comprehensive examination covering all of his graduate work, including the thesis. This examination may be written or oral, or both, as determined by the student's advisory committee.

A reading knowledge of a foreign language is required in all cases for the Master of Arts degree. This knowledge will be tested in the Educational Testing Service's Graduate Foreign Languages Examinations, administered by the University Counseling and Testing Center once each quarter. There is a \$6.00 fee, and the admission ticket must be obtained at the Graduate School Office four weeks in advance of the examinations, which are normally administered in October, February, May, and July. The ETS examinations are available only in French, German, Russian, and Spanish; students wishing to present any other language must receive written permission from the dean of the Graduate School.

Students having an undergraduate grade point average below 3.70, must satisfy the graduate English requirement by passing the Graduate English examination. The examination is administered by the Counseling and Testing Center once each quarter. The graduate English requirement must be satisfied before the student has completed 24 quarter hours.

Candidates are expected to meet requirements in force during the year of graduation, but due consideration will be given the fact that a student may have been admitted and may have planned his work when other requirements were current. Important changes in requirements are put into effect gradually. It is especially important that the following data should be kept up to date on the student's record in the graduate office: the major and minor, the degree for which the student is a candidate, the name of the chairman of the advisory committee, and the thesis adviser.

The following deadlines are stated for the guidance of the candidate for the master's degree:

1. The graduate English examination is to be taken during the first quarter in which the candidate is enrolled in a course given for residence credit.

2. Any foreign language requirement is to be met at least three months prior to graduation.

3. The thesis subject is to be approved by the chairman of the advisory committee at least twenty weeks before the date of graduation and is then to be reported by the student to the Graduate School.

4. The completed thesis should be presented to the dean of the Graduate School at least three weeks before graduation.

5. The preliminary checkup for graduation is to be made with the Graduate School at least five weeks prior to the graduation date. Application forms, which may be secured from the Registrar's Office, should be completed and returned to that office after payment of the graduation fee at the Bursar's Office.

### **Sixth-Year Specialist's Certificate Program**

The Sixth-Year Specialist's Certificate program is for a qualified student with a master's degree or its equivalent who wishes to pursue a planned sixth-year program leading to specialization in an educational field. Certain sixth-year courses of study developed and offered in professional education areas have been approved by the Graduate Council with the following minimum requirements.

Students seeking admission to the Sixth-Year Specialist's Certificate program will follow the same procedures that apply to admission to other graduate programs. Admission requires a grade point average of 4.25 for graduate work. Departments or divisions may establish a higher scholarship requirement for admission and may use whatever selective criteria are appropriate to the field of specialization. The student's previous work shall have provided a proper base of general and special preparation for the sixth-year studies; if this is lacking, additional work must be taken to establish the base. Two years of experience relevant to the specialized field are required.

An advisory committee of three members for each candidate shall be appointed by the dean of the Graduate School upon the recommendation of the chairman or head of the respective department.

A minimum of 45 quarter hours of work beyond the master's degree or its equivalent is required. This work must be planned early by the student and his advisory committee, must clearly move the student toward the specialization he seeks, and must conform to a Sixth-Year Specialist's Certificate program approved by the Graduate Council. A minimum grade point average of 4.25 for all work in the Sixth-Year Specialist's Certificate program is required. A maximum of 20 hours at the 400 level may be taken, of which not more than 12 may be in the College of Education. A combined maximum of 9 quarter hours of graduate credit earned in extension and in other graduate schools may be counted. All such work must be approved by the student's advisory committee and must carry a grade of *B* or better. No credit earned through correspondence or used in attaining another degree or certificate may be counted.

No credit earned while the student was on unclassified status will count except credit earned while the application for admission was being processed, and then only with the recommendation of the advisory committee. All credit must have been earned within seven years prior to the completion of the program.

Full-time, full-load residence of one quarter (or two summer sessions of at least eight weeks each) is required. Students who are employed full time may not carry more than one course per quarter.

With the prior approval of the student's advisory committee, credit toward the Sixth-Year Specialist's Certificate program may be earned at both campuses of the University in programs approved on both campuses by the Graduate Council.



## **Doctor of Philosophy Degree Programs**

### *Admission*

Admission to the Graduate School on the doctoral level requires a master's degree or its equivalent, a grade point average in graduate work of 4.25 or above, and acceptance by the student's major department. The dean of the Graduate School informs each student of any conditions imposed by the Graduate School or by the academic unit of his major. All conditions must be fulfilled before the student can be admitted unconditionally.

In the College of Education doctoral admission is to a functional area, after which a program is built for a specialty within that functional area. Students seeking admission to a doctoral program in education must contact the coordinator of one of the three following functional areas:

Administration and Social and Philosophical Foundations  
Curriculum and Instruction  
Educational Psychology

### *General Requirements*

The Doctor of Philosophy degree is awarded for high accomplishment in a particular discipline or a recognized interdisciplinary area, as measured by the student's ability to pass formal courses and a comprehensive examination, perform a piece of original research, write his results in proper form in a dissertation, and defend his dissertation with distinction before a faculty committee. The taking of formal courses is an essential part of the process of preparation for the Doctor of Philosophy degree, but the passing of such courses will not in itself qualify the student for the degree.

A student will generally prepare for his comprehensive examination by taking a minimum of 48 quarter hours of graduate credit beyond the master's degree, or its equivalent. He will then be required to perform research and write a dissertation, which ordinarily will credit him with 36 to 48 quarter hours, but the total number of hours beyond the master's degree (dissertation plus other course credits), will be 96. All work at other institutions offered in partial fulfillment of requirements for the Doctor of Philosophy degree is submitted to the Graduate School for approval when the student seeks admission to candidacy. Any such transfer of credit will be subject to the following rules: (1) that it be made an integral part of the student's total plan; (2) that it be of excellent quality; (3) that it be earned within the preceding five years (credit earned more than five years prior to the request may be rejected or accepted for partial value); and (4) that in no case will the acceptance of transfer credit reduce basic residence requirement or reduce such basic tools or requirements as the student's committee may prescribe. No more than 24 hours beyond the master's degree or its equivalent may be transferred from another university, except in cases in which the student's advisory committee recommends that work be taken elsewhere.

A student must satisfy the residence requirements only at a campus of the University where a doctoral program in his major has been fully approved. Work transferred from another campus of the University must have been part of the doctoral program planned and approved by his advisory committee, but in no case may exceed 24 quarter hours.

An average of 4.25 ( $A=5.00$ ) is required, as a minimum, for the



Doctor of Philosophy degree. No course in which the grade is below *C* counts towards the degree; however, the grade does count in the student's average. Each student admitted to advanced standing in the Graduate School is required to maintain a grade point average of at least 4.25.

### *Research Tools*

Each candidate for the Doctor of Philosophy degree shall be required to demonstrate competence in two research tools chosen by his advisory committee from a list approved by the Graduate Council. These shall embody skills needed in understanding materials in the fields, or in the conduct of research for their dissertation, or in their continuing research contributions in their fields of specialization. Approved research tools include Foreign Languages (one language is one research tool), Statistics, and Computer Programming. Proficiency examinations are required for languages and computer programming, and may be used for statistics. If courses are taken to satisfy any research tool requirement, those courses will not count toward the minimum credit requirement for the degree. A student whose native tongue is not English may offer English as one language, and will demonstrate his proficiency in his course work. The student's native tongue is not acceptable as a research tool. The research tool requirement must be satisfied before the student may take the preliminary examination.

Proficiency in foreign languages will be determined by means of the Educational Testing Service's Graduate Foreign Language Examinations, administered by the Counseling and Testing Center once each quarter. There is a \$6.00 fee, and the admission ticket must be obtained at the Graduate School office four weeks in advance of the examinations, which are normally administered in October, February, May, and July. The ETS examinations are available only in French, German, Russian, and Spanish. A student who wishes to present any other language must have his advisory committee recommend to the dean of the Graduate School this particular language as necessary in dissertation research. The dean must approve this recommendation before arrangements for testing in that language can be made with the Department of Foreign Languages or any other testing service.

If a student fails an examination in a particular language twice, he will be required to take the course 161 in that language before taking the examination again. After a third failure of the doctoral examination in the same language, the student must successfully petition the dean of the Graduate School before taking the examination a fourth time.

A student whose advisory committee chooses statistics as a research tool may demonstrate proficiency by passing a sequence of courses in statistics (Guidance 505, 506, 507; Mathematics 410a, b, c, or d; 480a, b, c; or 483a, b, c) with a grade of *B* or better in each of the three courses. If the student has some background in statistics and the approval of his advisory committee, he may meet this requirement by skipping the first course and taking the second and third, in which he must earn a *B* or better. Or, if his background is thought adequate by his committee, he may take a proficiency examination equivalent to the final examination in all three courses of a given sequence, with that exam to be administered by the instructor of that sequence, and on which the student must make a grade of *B* or better.

The student for whom the computer programming option is chosen will demonstrate that he can competently use two programming languages,

ALGOL and FORTRAN. He will be required to pass a written examination, and then to demonstrate that he has developed some sophisticated skill in the use of the computer languages by writing programs to accomplish specified tasks. Any courses taken to help achieve the necessary skills cannot be used for credit toward a Doctor of Philosophy degree.

### *Preliminary Examinations*

Each student accepted for study in a doctoral program is admitted on a provisional basis and remains so until he is admitted to candidacy for the degree. Admission to candidacy takes place after the student has fulfilled the credit hour and the research tool requirements and passed preliminary examinations. Preliminary examinations will cover all areas of the discipline in which the student is working, plus such outside areas as his advisory committee may designate. It will ordinarily be part written and part oral.

### *Residence*

In order to earn the Doctor of Philosophy degree one must be in full-time residence for a minimum of two academic years on the campus of Southern Illinois University where a doctoral program has been approved. In exceptional cases, a student with two years of graduate study elsewhere will be permitted to take the preliminary examinations provided he has fulfilled the research tools requirement. If such a student passes the preliminary examination, he may complete the requirements for the Doctor of Philosophy degree by devoting a third year to research in residence. A student may satisfy up to one year of residence requirement by attending summer quarters at Southern Illinois University. Full-time attendance during three summer quarters is the equivalent of one academic year's residence.

The term residence means physical presence of a candidate from day to day, in the immediate area in which classes are offered, complete University library facilities are available, and academic supervision can be provided at any time at the discretion of the advisory committee. A student shall be considered in full-time residence only during those quarters in which he shall be registered for at least 12 hours of credit. Students carrying less than 12 hours shall be granted a prorated share of residence credit.

All work for the Doctor of Philosophy degree must be completed in not more than five calendar years from the close of the quarter in which the student is admitted to candidacy. If completion of requirements is delayed beyond that time a student may be required to take another preliminary examination and be admitted to candidacy a second time. Appeals based on very unusual circumstances beyond the control of the student should be addressed to the dean of the Graduate School. At least six months must elapse between the passing of preliminary examinations and the completion of all degree requirements.

### *Dissertation*

A dissertation showing high attainment in independent, original scholarship or creative effort shall be submitted as partial fulfillment of the requirement for the Doctor of Philosophy degree. It shall be supervised by a faculty member who is approved by the dean of the Graduate School and who thus becomes chairman of the candidate's advisory committee. The



topic of the dissertation must be approved by the supervisor and by the dean of the Graduate School before the project is undertaken.

The student must register for the course, Dissertation 600, on a full-time or fractional basis for at least three normal full-time quarters or their equivalent. The grade will be deferred until the dissertation is completed and approved.

All dissertations will be microfilmed according to a plan approved by the Graduate School. Five weeks before the date of graduation, the candidate must have fulfilled the following requirements: (1) submission to the Graduate School of two approved, typewritten copies of his dissertation (one the original copy) and a signed microfilm contract; (2) submission to the Graduate School of an abstract of the dissertation of 600 words or less (or a description of the project, if it is a creative work); and (3) payment of \$30.00 to cover cost of publication of the abstract and microfilming of the dissertation (if copyright is desired, an additional fee will be required).

### *Summary of Requirements*

1. Forty-eight hours of credit beyond a master's degree or its equivalent, plus the dissertation are required. The total requirement beyond the master's degree is 96 hours or its equivalent.

2. The dissertation shall represent at least three quarters of full-time work and at least 36 hours of credit.

3. Credit up to 24 hours beyond a master's degree may be transferred from another institution. Upon the recommendation of the advisory committee that work be taken elsewhere, more transfer credit may be approved.

4. A grade point average of 4.25 in graduate work is required for admission to a doctoral program and for final qualification for the degree. No course in which a grade below C is earned shall count toward the degree; however, the grade shall count in the student's grade point average.

5. Proficiency in two research tools must be demonstrated before a student takes the preliminary examinations. The two research tools are chosen by the advisory committee from a list approved by the Graduate Council. Choices are foreign languages (one language is one research tool), statistics, or computer programming.

6. Two academic years, or the equivalent, of full-time graduate work in residence are a minimum requirement. Each student must spend at least three successive full-time quarters in residence.

7. The degree may not be conferred less than six months nor more than five years after admission to candidacy. Admission to candidacy follows successful completion of 48 hours of course work beyond a master's degree, the research tools requirement, and the preliminary examinations.

8. Each student must submit with the approved dissertation a signed microfilm contract and evidence of payment to the University of the microfilm fee.

9. Application for confirming the degree must be made at least 5 weeks before the anticipated graduation date. Dissertations must be filed with the Graduate School at least 3 weeks before the anticipated graduation date.

### **Interdisciplinary Doctoral Programs**

These guidelines provide for interdisciplinary doctoral programs for a



limited number of students whose educational requirements can be met by existing resources but not by any one of the University's constituent units. Interdisciplinary programs will be instituted in response to the particular academic interest of individual students, not as programs of a permanent nature. The procedures and criteria given below govern the authorization and control of interdisciplinary doctoral programs.

1. After completion of one year of full-time academic study in an established graduate program and upon the recommendation of the chairman or adviser of that program, a student may apply for an interdisciplinary program to the dean of the Graduate School.

2. The dean of the Graduate School will apply the following criteria in deciding whether a program committee should be established to consider the proposed interdisciplinary program.

a. The requisite staff must be available.

b. The library holdings must be adequate without unreasonable additions.

c. The program must lie within recognized disciplines or fields of study, at least one of which offers the doctoral program.

3. If the dean of the Graduate School is satisfied that the proposed program satisfies these criteria, he shall form a special program committee (of five members) three of whom shall be from units offering the doctorate, and he shall direct the student's dissertation.

4. If the committee approves the proposed program, a plan of study shall be developed that includes the following elements:

a. Fields or areas of study

b. Required courses

c. Languages or other research tool requirements

d. Dissertation subject

5. The program as approved by the committee shall be submitted to the dean of the Graduate School. Upon his final approval, the student's program shall have the same binding effect upon the Graduate School as programs printed in the Graduate School Catalog.

6. When the committee has certified all the required performances, including the results of examinations, the committee shall be dissolved.

### **Advisement**

Each student admitted to the Graduate School is expected to consult a graduate adviser in the department or faculty of his major for assistance in planning his total program and in choosing courses each quarter. As soon as the student gains approval for a thesis topic and a thesis director, the latter is designated as chairman of the advisory committee. This committee advises the student in the preparation of the thesis or dissertation, evaluates its quality when completed, and supervises the final examination, written or oral, when one is required.

Maximum course work for graduate students is 16 hours each quarter; 12 hours is considered a normal load. The maximum load for teaching, research, and graduate assistants who are employed half-time is 12 hours and the minimum is 6 hours; for assistants who are employed more than half-time the maximum is 8 hours. For persons attending the 8 weeks summer session, the maximum is 12 hours. These maxima may be exceeded only with the written permission of the dean of the Graduate School.

A graduate student is expected to plan his work carefully. Program

changes after registration must be approved by the student's adviser and the dean of the Graduate School. They may involve payment of a program-change fee. Program change forms may be obtained from the Graduate Office.

The graduate student must assume responsibility for his progress by keeping an up-to-date record of the courses he has taken and by consulting periodically with his adviser. Responsibility for errors in program or in interpretation of regulations of the Graduate School and the University rests entirely upon the student. Advice is always available on request.

Since graduate work is carried on at both the Carbondale and Edwardsville Campuses, it is the student's responsibility to see that his records in the Graduate School, Registrar's Office, and with his major adviser are brought together on the campus where he wishes to graduate, well in advance of the time of graduation. Student records cannot be processed and the student approved for graduation unless these records are available on the campus where graduation is to occur at least *six weeks in advance of the time of graduation*.

### Graduate Advisers

Following is the list of advisers to graduate students pursuing a master's degree.

Accounting—Roland Wright	Government—Frank L. Klingberg
Agricultural Industries—Walter J. Wills	Guidance and Educational Psychology—John Cody
Animal Industries—Alex Reed	Health Education—C. E. Richardson
Anthropology—Charles Lange	Higher Education—Donald Tolle
Applied Science—Eldred Hough	History—Howard Allen
Art—Milton Sullivan	Home and Family—Betty Jane Johnston
Art Education—Roy Abrahamson	Home Economics Education—Anna Carol Fults
Behavior Modification—Guy Renzaglia	Instructional Materials—Paul R. Wendt
Biological Sciences—Edwin Galbreath	Inter-American Studies—Albert W. Bork
Botany—William D. Gray	Journalism—Bryce W. Rucker
Business Administration—Charles Hindersman	Linguistics—Charles Parish
Chemistry—C. D. Schmulbach	Management—Floyd Patrick
Clothing and Textiles—Rose Padgett	Marketing—Clifton Andersen
College Student Personnel—Jack Graham	Mathematics—John M. H. Olmsted
Community Development—Richard Thomas	Microbiology—Maurice Ogur
Computer Science—A. M. Mark	Music—Roderick Gordon
Design—H. F. W. Perk	Philosophy—Lewis E. Hahn
Economics—Clark Allen	Physical Education (Men)—Edward J. Shea
Educational Administration and Foundations—J. O. Bach	Physical Education (Women)—Dorothy Davies
Elementary Education—Luther Bradford	Physical Sciences—(Chairmen of the Faculties Involved)
Engineering—Eldred Hough	Physics—John Zimmerman
Engineering Technology—Eldred Hough	Physiology—Harold M. Kaplan
English—Robert Griffin	Plant Industries—John K. Leasure
English as a Foreign Language—Charles Parish	Psychology—David Ehrenfreund
Finance—J. Van Fenstermaker	Recreation and Outdoor Education—William H. Freeberg
Food and Nutrition—Krank Konishi	Rehabilitation Administration—Guy Renzaglia
Foreign Languages—Hellmut Hartwig	Rehabilitation Counseling—Guy Renzaglia
Forestry—John Andresen	
Geography—Frank Thomas	
Geology—D. N. Miller, Jr.	



Secondary Education—Clarence D. Samford	Speech—Earl E. Bradley
Secretarial and Business Education—Harves Rahe	Speech Pathology and Audiology—I. P. Brackett
Social Studies—Howard Allen	Technical and Industrial Education—Ronald W. Stadt
Sociology—Herman Lantz	Theater—Archibald McLeod
Special Education—James Crowner	Zoology—Harvey I. Fisher

### **Grading System**

Grades are recorded by the letters *A*, *B*, *C*, *D*, and *E* ( $A = 5.00$ ). *A* is for outstanding work, *B* for good or average performance, *C* for conditional or not fully satisfactory work, *D* for unsatisfactory work, and *E* for failure.

Other grades may be:

**W**—Authorized withdrawal made through a program change where no basis for evaluation has been established. Work may not be completed. This grade is not included in grade point computation for retention purposes.

**Wp**—Authorized withdrawal made after first four weeks through a program change with a passing grade. Work may not be completed.

**WE**—Authorized withdrawal made through a program change after the first four weeks with failing grade. Work may not be completed, but grade is included in calculation of average.

**Inc.**—Incomplete. Has permission of instructor to be completed within a time period designated by instructor, but not to exceed one year from the close of quarter in which course was taken. If Inc. remains, it is not included in grade point computation. To complete the work, a student should not register for the course again but should complete the work from the original registration.

**Def.**—Deferred. Used only for graduate courses of an individual, continuing nature such as thesis or research. When the work is completed, grade is changed to a letter grade.

**Ab**—Unauthorized withdrawal. Used when student fails to continue in attendance, but does not withdraw through a program change. Counted as an *E* in calculating grade point average.

**S**—Satisfactory. Used only for noncredit courses.

**U**—Unsatisfactory. Used only for noncredit courses.

**Au**—Audit. A student registering for a course on an “audit” basis receives no letter grade and no credit hours. An auditor’s registration card must be marked accordingly and he pays the same fees as though he were registering for credit. A student registering for a course for audit may change to a credit status or vice versa through the official program change method during the first four weeks of a quarter. Thereafter the change may not be made.

**Note:** Letter grades *A*, *B*, *C*, *D*, and *E* as well as the grades **WE** and **Ab** are included in grade point averages for academic retention. Authorized withdrawals made through a program change during the first four weeks of the quarter do not carry a grade. After four weeks it is at the discretion of the instructor whether or not a letter grade will be given for an authorized withdrawal.





## 2 / Instructional Units

### **Agricultural Industries**

The Master of Science Degree in Agricultural Industries may be earned with a major in either of two broad programs involving several options. At least 48 hours of graduate courses, including a thesis or research paper are required. All candidates must satisfactorily pass an oral examination after they have met the other requirements.

One program is planned for the professional agricultural economist and permits options in agricultural economics, agribusiness, and agricultural development. For these options the student must satisfactorily complete 24 hours of courses in agricultural economics and in business (School of Business). A thesis is required.

The second program is designed to improve the competence of agricultural teachers, farm advisors, and others working in the areas of agricultural education and services. This program may be more general than that above. The required 24 hours of specialized course work may be chosen from any graduate courses in the School of Agriculture. Furthermore, the student may prepare either a research paper or a thesis. The program may be tailored to the particular needs, goals, and objectives of the candidate.

Students interested in agricultural economics at the doctoral level should consult with the Department of Economics in the School of Business concerning approval of a major in economics with a specialization in agricultural economics. Students interested in a 6th year specialist certificate in education with a specialization in agricultural education should consult with the Department of Secondary Education, College of Education.

For further information concerning the above programs and availability of assistantships, write to the chairman, Department of Agricultural Industries, Southern Illinois University, Carbondale, Illinois 62901.

### **Animal Industries**

The Department of Animal Industries offers work for the Master of Science degree. A minimum of 24 hours in animal industries courses, including a thesis, is required. Programs may be designed to meet the desires of candidates with emphasis upon animal nutrition, breeding, physiology, or production of beef, dairy, poultry, sheep, or swine. The fields of major emphasis may include courses in other related departments such as chemistry, microbiology, physiology, and zoology. Graduates from this program wishing to work for a Doctor of Philosophy degree have many opportunities for financial assistance at other institutions.

Students with a major in another department may choose a minor in animal industries.

For information concerning a specific program and assistantships available, write to the chairman, Department of Animal Industries, Southern Illinois University, Carbondale, Illinois 62901.

## **Anthropology**

### *General Requirements*

Acceptance for graduate study in anthropology and subsequent continuation in the graduate program are at the discretion of the Department of Anthropology.

Application forms for admission to the Graduate School may be obtained from the Graduate School. When submitting the completed application to the Graduate School, the student must send official transcripts of undergraduate and graduate work; three letters of recommendation addressed to the chairman of the department must also be submitted.

The Graduate Record Examination must be taken by all students. If they are known, the scores should be reported with the application. If a student has not done so previously, he must take the Graduate Record Examination at the first opportunity after his entry into the department.

No special program of previous work is required, and applicants with academic degrees in fields other than anthropology are accepted. However, in consultation with the department, a plan for remedying undergraduate deficiencies in anthropology may be arranged.

The department does not require that every student take a master's degree on his way to the doctorate. Whether he does or not is a matter for decision by the student and the department. (For those who do not have the Master of Arts degree in anthropology, formal admission to the doctoral program is dependent on the success of the student in the general examination.)

The program of study for each student will be worked out by the student and his adviser. The normal course of study leads a student to present himself for the general examination after two years of full-time course work. Candidates for the Doctor of Philosophy degree then proceed to a further year of full-time study before presenting themselves for the special examination.

A student's overall progress in his studies is reviewed at the end of each year, or as may be necessary, in order to see that the requirements of the department are being met and that the student's best interests are being served.

### *Departmental Requirements*

Normally, all graduate students in anthropology working for a higher degree must meet the following requirements:

1. Complete the course-hour requirement as established by the Graduate School: completion with a passing grade (*B* average) for a minimum of 48 hours of course work plus the thesis for the master's degree and a minimum of 96 hours plus the dissertation for the doctorate.

2. Complete the equivalent of two academic years (6 quarters) of course work with not less than a *B* average before presenting themselves for their general examination. Previous graduate and/or professional work in anthropology may lead to earlier qualification to take the general examination. The normal course load per quarter is 4 courses or approximately 12 hours.



3. Pass one foreign language examination at least two months before presenting themselves for their general examination. The regulations concerned with foreign language requirements are outlined in this catalog; they may be discussed with the chairman of the department. The student is urged to acquire this language competence at the earliest opportunity so that he is equipped with a useful tool while pursuing his graduate studies.

4. Complete the following required courses: Anthropology 408a,b, and 415.

5. Demonstrate competence in statistics to the satisfaction of the department.

6. Pass with not less than a *B* average the general examination (below) given in the fall and spring quarters. At the option of the department an oral examination may be required following the written examination.

7. Satisfy all general University and Graduate School requirements as outlined in this catalog.

### *The General Examination*

The coverage expected of the student presenting himself for the general examination is stated in syllabi on the topics listed below. The length of the written examination in each part is indicated in parenthesis after the topic.

1. Physical Anthropology (2 hours)
2. Archaeology (3 hours)
3. Linguistics (2 hours)
4. Social Anthropology (3 hours)
5. History of Anthropological Thought (2 hours)
6. Ethnology (3 hours)

### *The Special Examination*

The field of study for the Special Examination is directed towards particular and concentrated study of one or more topics of anthropology, with emphasis on a particular geographical area. The field of study is determined after consultation with the department; study is currently invited or encouraged in the following topics and areas (modifications will be considered as changes in faculty personnel and competencies warrant).

<i>Topics</i>	<i>Areas</i>
Archaeology	North America:
Ethnology	Greater Southwest
Linguistics	Eastern U.S. (East of Rockies)
Physical Anthropology	Arctic and sub-Arctic
Social Anthropology	Middle America:
	Meso-America
	Caribbean and Circum-Caribbean
	South America
	Oceania
	Asia:
	S.E. Asia
	Africa:
	West Africa
	Europe:
	Western Europe
	Mediterranean Basin

The nature, scope, and limits of the special field of study are deter-

mined in consultation with the department and delimited at the student's colloquium.

The normal expectancy is that the student's dissertation topic will be derived from his special field of concentration; however, in consultation with the department, exceptions may be made.

### *Master's Degree*

Students who wish to take a master's degree will be advanced to candidacy, if they have met the requirements under departmental requirements (above). Completion of the degree requires the presentation of a satisfactory thesis. A principal adviser on the topic chosen for the thesis will be appointed by the department. A student may complete his thesis before presenting himself for the general examination, before being advanced to candidacy.

### *Doctor of Philosophy Degree*

Students who wish to take a Doctor of Philosophy degree and who have met the departmental requirements (above) will consult the department in order to select a special field of study.

This selection will be made in consultation with a special field adviser and committee designated to guide the student's preparation for the Special Examination. The student's plan of special study will be presented at a colloquium for approval by this committee; faculty members not assigned to the special guidance committee may participate in this colloquium.

The student will spend not less than one academic year, or its equivalent, in residence after the successful completion of his general examination before presenting himself for his special examination. However, the student cannot present himself for the special examination sooner than six months after completing his second foreign language requirement.

### *Field Research*

A student cannot be recommended for the award of the Doctor of Philosophy degree unless he has had the experience of field research acceptable to the department.

### *Thesis and Dissertation Credit*

Candidates for the Master of Arts degree must register for 5 hours of thesis credit under Anthropology 599. Candidates for the Doctor of Philosophy degree must register for 36 hours of dissertation credit under Anthropology 600; not more than 18 hours' credit can be earned in any one quarter.

### *Dissertation*

After successful completion of the Special Examination, a candidate for the Doctor of Philosophy degree will consult with the department in order to select the topic for his dissertation. The chairman of his dissertation committee will then be appointed and, together with the committee, will advise the student accordingly.

## **Applied Science and Engineering Technology**

Graduate courses in applied science and engineering technology are



available in the area of industrial design, information theory and processing, nuclear science, materials science, mechanics of fluids, transfer and rate processes, mechanics of solids, photogrammetry, thermodynamics, and electrical science.

Acceptance for a degree program is made by the dean of the School of Technology and subject to the admission requirements of the Graduate School. An applicant must have received a bachelor's degree with a major or minor in engineering, physics, chemistry, or mathematics or with an emphasis in these fields.

After a student has been admitted to the Graduate School, he should consult the assistant dean for graduate studies of the School of Technology who will designate a staff member to serve as the student's adviser. When the student has chosen a thesis topic and a staff member has consented to direct the project, the thesis director will become the student's adviser and will function together with an advisory committee. An approved program of study may be worked out by the student and his committee, and decisions will be made by the committee in regard to curriculum requirements, research topic, and examinations.

Degree requirements are consistent with the general requirements of the Graduate School with a minimum of 48 hours of graduate credit required.

Teaching and research assistantships are available to well-qualified applicants. Further information about the courses of study or on graduate and research assistantships or fellowships may be obtained from the office of the School of Technology.

## **Art**

Graduate programs in art lead to the Master of Fine Arts, Master of Arts, and Master of Science degrees. The candidate is expected to select an area of specialization (studio, art history, or art education) around which his program will be planned in consultation with the professor in that area.

Requirements for the Master of Fine Arts degree in studio (painting, sculpture, printmaking, ceramics, metalsmithing, and weaving) total 60 quarter hours. These hours are distributed as follows: 30 in the major field, 12 in art history, 5 to 9 in thesis or terminal project work, and the remainder in electives. The candidate for the Master of Fine Arts degree must, in addition to the completion of course work, present a terminal project, and participate in an oral examination. Residency requirement for this degree is at least two academic years, or six academic quarters. The University also asserts the right to retain an example of the candidate's creative work, and this selection will be made from the work presented in the graduate exhibition.

Requirements for the Master of Science degree in art education total a minimum of 48 quarter hours. These hours are distributed as follows: 16 in education, 32 to be elected from the areas of art education, art history, and studio, 5 to 9 quarter hours are to be devoted to either thesis work or research work. Such work will result in the writing of a thesis or a research paper. The candidate must participate in an oral examination of the above mentioned thesis or research paper.

Requirements for the Master of Arts degree in art history total 48 quarter hours, and are to be distributed among courses in the history of art, language and humanities or social science electives by the graduate



adviser, depending upon undergraduate experience. A combined total of 60 quarter hours in art history on the undergraduate and graduate levels is considered desirable. Graduate students in art history are encouraged to schedule courses and pursue work in related minor fields. The student must demonstrate a reading knowledge of one foreign language. A comprehensive examination in art history is required in addition to a research thesis.

Courses in the areas of Ancient, Medieval, Renaissance, Asiatic, and Modern art history are offered in the following course formats: Art 482, 483, 571, and 573.

Undergraduate requirement for admission to the Master of Fine Arts program is a degree in art or art education; for admission to the Master of Science in Education, a degree in art education; and for admission to the Master of Arts in art history program, a degree in the humanities. Any exception to these requirements must be with the approval of the faculty in the special degree program, and with the consent of the chairman of the Department of Art.

### **Asian Studies**

A graduate minor is offered in Asian Studies which may be made up by selecting from the following courses which are listed by departments: Agricultural Industries 417; Anthropology 401, 483, 585, Art 451a,b,c, 571, 572; Economics 460, 461, 462; Geography 466, 522; Government 457, 458a,b,c, 480, 521, 595; History 448, 449, 455, 510, 514; Philosophy 490, 591. Thesis and dissertations on Asian topics may also be written by students in any of several majors.

Interested graduate students may write to or consult with the chairman of the Committee on Asian Studies.

### **Biological Sciences**

#### *Requirements for Admission*

1. Bachelor's degree with a major in a natural science department.
2. Admission to the Graduate School.
3. Approval of the chairman of the Biological Sciences Committee or his designated representative.

#### *Requirements for the Degree*

Complete 60 hours of graduate courses in the biological sciences. The specific courses required of any student are to be determined by consultation between the student and the program committee, with the following provisions:

1. No more than 35 hours of credit in any one department may be used for the degree.
2. No minor area is required.
3. Have at least 24 hours of credit in 500-level courses. These may not include more than 4 hours for "special problems," 4 hours for "seminars," and 4 hours for "readings."
4. Complete at least one 400- or 500-level laboratory course in three of the departments of the biological sciences. (No special credit, such as indicated in 3 above, will satisfy this requirement.)

5. Submit a research paper.
6. Attend, for credit, at least one quarter of seminar in three of the departments of the biological sciences.

### *Advisement*

Guidance of students shall be by a program committee of three members, one from each of the biological science departments involved, or other departments at the discretion of the program committee. The program director will serve as an *ex-officio* member.

Graduate work may be taken in the Departments of Botany, Microbiology, Physiology, and Zoology to obtain a Master of Science degree in biological science in the College of Liberal Arts and Science.

### **Botany**

Graduate work may be taken in the Department of Botany as a major or minor leading to the Master of Arts, Master of Science, and Doctor of Philosophy degrees and as a part of the program in biological sciences leading to the Master of Science or the Master of Science in Education degree.

Applicants for the advanced degrees must be approved by the department. Queries concerning graduate work in botany should be made to the graduate adviser in botany. To be eligible for graduate work in botany, the student must have an equivalent to an undergraduate minor in botany. Certain deficiencies may be made up concurrently with graduate work.

In accordance with the general requirements of the Graduate School, a candidate for the Master of Arts or Master of Science degree must complete 48 hours of graduate credit and a thesis. The Master of Arts candidate must demonstrate a competence in a foreign language.

The Doctor of Philosophy degree requires, in addition to a dissertation, a reading knowledge of two foreign languages or one foreign language and statistics, if recommended by the candidate's committee.

### **Business Administration**

The graduate faculty in business administration, consisting of members of the Departments of Accounting, Management, Marketing, and the Faculty of Finance of the School of Business at Carbondale, offers the Master of Business Administration degree. The M.B.A. program has as its objective the development of professional managers and executives to serve the needs of business and government and to prepare interested graduates for doctoral study. The program has been structured with flexibility so as to serve holders of baccalaureate degrees in business administration as well as those who hold degrees in other disciplines.

### *M.B.A. Admission Requirements*

1. Complete all admission requirements set forth by the Graduate School of Southern Illinois University.

2. Complete the Admission Test for Graduate Study in Business (Princeton Test) and have the results of the test mailed directly to the director of graduate programs in Business Administration. Information regarding this test is available by writing to: Admission Test for Grad-



uate Study in Business, Educational Testing Service, Box 966, Princeton, New Jersey 08540.

3. Complete an interview with the director of graduate programs in Business Administration. This interview may be delayed in individual cases where a special trip to the campus would require travel in excess of one hundred miles to reach the Carbondale campus.

4. An undergraduate cumulative grade point average of 4.00 is preferred, and less than a 3.75 grade point average is accepted with rare exception.

### *M.B.A. Degree Requirements*

A minimum of 48 quarter hours of course work plus a terminal examination (oral, written, or both) are required. Candidates who receive permission to write a thesis must complete a minimum of 44 quarter hours of course work plus an acceptable thesis for which 8 quarter hours of credit are assigned.

Candidates who lack the necessary prerequisites may be required to complete as much as 80 quarter hours of acceptable course work. Those who enter the Master of Business Administration program with deficiencies in any of the core areas of business administration or in mathematics must eliminate the deficiencies in a satisfactory manner prior to starting the program course work. The seven core areas as stipulated by the American Association of Collegiate Schools of Business include: accounting, business law or legal environment of business, economics, finance, management, marketing, and statistics.

The Master of Business Administration program course work to be taken beyond that needed to eliminate deficiencies is determined on an individual basis in conference with the director of graduate programs in business administration. Candidates must satisfy requirements in the following areas: quantitative methods, accounting, economics, behavioral sciences, legal environment of business, finance, marketing, management, communication, and business policy.

The candidate may select a concentration, not to exceed 15 quarter hours of credit, from one of the following: accounting, finance, management (personnel or production), marketing, or transportation. The candidate may also choose courses in a wide variety of areas of graduate study throughout Southern Illinois University.

### **Chemistry**

Graduate courses of study leading to the Doctor of Philosophy, Master of Science, Master of Arts (by petition), and Master of Science in Education degrees are offered by the Department of Chemistry. Interested students should consult the chairman of the Department of Chemistry for a complete statement of the requirements for each degree. The following is a summary of these requirements:

#### *Master of Science Degree*

In addition to meeting the general requirements of the Graduate School, a candidate for the Master of Science degree in chemistry is required to:

1. Pass field examinations in 3 of the 5 fields (analytical, inorganic, organic, physical, and biochemistry) of chemistry or complete their equivalent in course work with a grade of *B* within the first nine months of residence.



2. Earn 9 credit hours at the 500 level in one of the five basic fields of chemistry (Chemistry 451a,b,c may be taken in place of two 500-level biochemistry courses) and earn credit in one chemistry course at the 500 level in each of two other fields.

3. Earn 40 hours credit in chemistry courses or 30 hours if an outside minor is elected.

4. Maintain a 3.75 grade point average in formal lecture courses.

5. Attend weekly seminars and earn one hour credit (Chemistry 595) by presentation of a seminar.

6. Earn a minimum of 12 hours in research and thesis (Chemistry 596 and 597).

7. Pass a language examination in German or Russian or present evidence of one year of undergraduate credit with an average grade of C.

8. Pass a final oral examination.

### *Doctor of Philosophy Degree*

A candidate for the Doctor of Philosophy degree must meet all of the requirements of the Graduate School and all of the requirements for the Master of Science degree (except for the thesis requirement which may be omitted with departmental consent). In addition the candidate must:

1. Pass field examinations in physical chemistry and three of the other four fields (analytical, inorganic, organic, and biochemistry) of chemistry or complete their equivalent in course work with a minimum grade of *B* within the first nine months of residence.

2. Complete a course of study as determined by his graduate committee.

3. Earn one hour credit in seminar (Chemistry 595) beyond the Master of Science degree requirement and attend weekly seminars.

4. Earn a minimum of 48 hours in research and dissertation (Chemistry 598 and 600).

5. Pass cumulative examinations in the major field of study.

6. Pass a language examination in German or Russian and demonstrate competence in one additional research tool as required by his Graduate Committee.

7. Maintain a 4.00 grade point average in formal lecture courses.

8. Pass preliminary oral and final oral examinations.

### *Master of Science in Education Degree*

The Master of Science in Education degree with a major in chemistry is intended for high school chemistry teachers who wish to increase their knowledge of chemistry. In addition to the Graduate School requirements, a candidate for this degree is required to:

1. Pass field examinations in two of the five fields (physical, analytical, inorganic, organic, and biochemistry) of chemistry or complete their equivalent in course work with a minimum grade of *B* within the first nine months of residence.

2. Earn 30 hours credit in chemistry courses and 15 hours credit in education courses.

3. Earn credit in three 500-level chemistry courses in at least two different fields (Chemistry 451a,b,c may be substituted for two 500-level biochemistry courses).

4. Attend weekly seminars and earn one hour credit (Chemistry 595) by presentation of a seminar.

5. Earn 5 credit hours in a special problems course (Chemistry 596).
6. Maintain a grade point average of 4.00 in formal lecture courses.
7. Pass a final oral examination.

### **Community Development**

The program is interdisciplinary. A candidate for the Master of Science degree in community development will take a portion of his work in related academic fields. Depending upon his professional plans, it will be possible for him to minor in a field such as agriculture, anthropology, economics, education, geography, government, history, psychology, or sociology. Undergraduate work in more than one of these fields is a desirable background for graduate study in community development. Students with inadequate backgrounds may be required to take certain courses to strengthen their preparation.

The period of study and training is planned to encompass one and one-half to two academic years. Included must be a minimum of 48 hours of graduate credit, plus a one year internship in community development, field consultation, leadership training or applied research. Only a limited number of students can be enrolled in any one year.

The requirements for the Master of Science degree in community development include the following:

1. Courses specifically designed or approved by the Community Development Institute, including a thesis, totaling 28 to 32 hours.
2. Work in one or more allied fields, such as anthropology, education, psychology, sociology totaling 16 to 20 hours.
3. One year of part-time noncredit graduate internship. (This may be reduced or waived for exceptional students with one or more years of acceptable professional experience in community development work.)
4. Fulfillment of the requirements of the Graduate School.

### **Design**

The Department of Design attempts a generalized rather than a specialized design education. Through his undergraduate years the student is led to treat of man and his environmental transactions in terms of whole systems rather than of isolated aspects or component parts. Emphasis is placed on the overall solutions to human problems which may be encompassed through design procedures.

The graduate program of the department continues this broad integrative approach but assumes that, at this level, the student should concentrate his studies in a more closely defined area within which he should work in depth.

It is recognized, however, within the present massive accelerations in the design possibilities of man's control over his environment, that the format of such graduate study should offer the utmost flexibility and capacity for change. The entire graduate program should be viewed as experimental in nature and one whose content and approach will be adjusted according to experience and field developments.

Students with an undergraduate background in various areas of design specialization may qualify for the master's degree program. In addition, on the premise that the association of diverse disciplines participating in the design process may often yield productive and enriching interactions, students with an undergraduate background in fields other than



design will be accommodated. Special arrangements should be developed in consultation with the chairman of the department.

A two-year graduate course of study, leading to the Master of Science degree in design, is offered in the areas listed below. The program requires at least 34 hours of graduate study in the Department of Design; at least 18 hours of study outside the department, selected with the adviser; and 9 thesis hours. Specialized areas are: (1) design in education, (2) communications in design, (3) industrial design, (4) environmental planning, and (5) generalized design science, directly oriented toward the design philosophy of R. Buckminster Fuller.

Within the structure of this program, graduates will work in an operational research and workteam organization rather than a formal classroom situation. There will also be the opportunity to participate in seminars and lectures given by distinguished visiting professors to the department and of conducting research under their guidance.

### **Economics**

Graduate courses in economics may be taken as a major or minor leading to the Master of Arts, Master of Science, and Doctor of Philosophy degrees.

A student may complete requirements for the master's degree through the successful completion of: (1) 48 hours of graduate work, including the master's thesis; or (2) 96 hours of graduate work and successful completion of the preliminary doctoral examination. Each master's degree candidate is required to complete at least 33 hours in economics, including certain required courses.

Graduate students with no undergraduate deficiencies, with no language handicaps, and with no outside demands upon their time may find it possible (by taking the heavy graduate load of 16 hours each quarter) to complete the master's degree in three quarters (roughly nine months). *Most* students who have none of these deficiencies or demands upon their time take three quarters and a summer to complete the master's program. Students with undergraduate deficiencies (determined by the chairman of the Department of Economics), with language difficulties (especially foreign students), or outside demands upon their time should expect to take longer. Such students should plan to be in residence longer than the usual three or four quarters.

The Graduate Record Examination is required of all applicants for admission.

If a student wishes to combine his study of economics with the fields represented in the College of Liberal Arts and Sciences, he should apply for a Master of Arts degree. If he wishes to combine his study of economics with fields represented in the School of Business, the School of Agriculture, or similar schools, he should apply for a Master of Science degree.

A student may complete the requirements for the Doctor of Philosophy degree by taking these steps: (1) completing 48 hours of course work beyond the master's degree, or its equivalent; (2) passing a preliminary examination, usually given upon substantial completion of course work other than thesis; (3) passing the research-tools requirement; (4) writing a satisfactory doctoral dissertation; and (5) passing the final examination.

The Doctor of Philosophy degree candidate may substitute an ap-



proved series of mathematics courses or an approved series of statistics courses for one of the two required foreign languages. A final proficiency examination must be successfully passed if the mathematics or statistics sequence is selected.

The preliminary examination will encompass: (1) certain "core" areas of economics; (2) economic theory; and (3) three additional "specialized fields" to be chosen from a list currently including international economics, labor, public finance, comparative systems, political economy, quantitative economics, money and banking, economic history, economic development, and agricultural economics.

After a student has been granted admission to the Graduate School, he should consult the director of graduate studies of the Department of Economics. The director will refer him to the departmental graduate student adviser, who will act as his adviser until the student has chosen his thesis or dissertation topic and a member of the department has consented to direct the project. The thesis or dissertation director will then become the student's adviser and will function together with an advisory committee.

Information on graduate and research assistantships may be obtained from the director of graduate studies of the Department of Economics. More detailed descriptions of the Master of Arts, Master of Science, and Doctor of Philosophy degree programs are also obtainable from the director.

### **Education**

One may pursue a program of study leading to the Doctor of Philosophy degree in education through any one of three functional areas: curriculum and instruction; educational psychology; educational administration and social and philosophical foundations. Specialties are available within the functional areas depending upon the student's interests. For example, in educational psychology he may choose a specialty in human learning, learning resources, special education or counseling and guidance. In all programs, students must satisfy the general requirements of the Graduate School in addition to the special requirements for the Doctor of Philosophy degree in education.

#### *Application*

An applicant must submit, to the coordinator of the functional area in which he wishes to do his work, his scores from the Graduate Record Examination and the Miller Analogy test, and other pertinent data. Following review by the area's screening committee, the coordinator will inform him of the committee's decision.

#### *Advisement*

For each student, the coordinator of his functional area appoints a program committee consisting of a chairman, who is in the student's functional area and who is authorized to direct doctoral dissertations, and two other members, at least one of whom must be from outside the student's functional area. His program, planned to include all of his graduate study beyond the master's degree, should be approved at a meeting of the student with his committee. Copies of the approved program are filed with the members of the committee, the student, the area coordinator,

and the assistant dean for graduate studies. Appropriate program changes must be approved and filed in the same manner.

### *Program Requirements*

Full-time residence of one quarter (or two summer sessions of at least eight weeks each) is required for the Master of Science in Education degree.

Each doctoral student in education must successfully complete a prescribed core of 12 credits in psychological foundations of education and social and philosophical foundations of education combined. In a functional area certain basic courses may be required beyond the common core. Specialties within the functional areas are supported by specific courses and other experiences agreed upon by the student and his program committee.

### *Preliminary Examinations*

When a student has passed the research-tools requirement and completed at least 36 hours beyond a master's degree or its equivalent, he may apply to the College of Education for permission to take the preliminary examination. The preliminary examination will assess the student's competencies in his field of specialization, including the research findings and techniques necessary for scholarship and productive work in his field.

### *Dissertation*

The dissertation committee consists of a chairman who is authorized to direct doctoral dissertations and at least three others who are authorized to serve on dissertation committees. The committee is appointed by the dean of the Graduate School on the recommendation of the area's coordinator through the assistant dean. At least one member of the committee must be from a functional area other than that of the student and at least one must be from a related area other than professional education.

Satisfactory completion of the dissertation requirement includes the passing of an oral examination which covers the dissertation and related areas.

## **Educational Administration and Foundations**

This department carries extensive graduate offerings in educational administration, instructional supervision, and educational foundations in support of the Master of Science in Education degree, the Sixth-Year Specialist's Certificate, and the Doctor of Philosophy degree in education.

The department administers its programs leading to the master's degree and the Sixth-Year Specialist's certificate, and provides programs and personnel for doctoral students who wish to specialize in educational administration, general instructional supervision, and educational foundations.

### *Master of Science in Education*

At the master's level, majors are offered in educational administration and in instructional supervision. Graduate courses taken in the department must follow the pattern of prerequisites for admission to courses. Admission to master's degree work in the department must be approved



by the department's admissions committee. The department's admissions requirements are available upon request to the chairman. Degree candidates' programs of courses must be approved by the appropriate adviser in the department. Transfer from unclassified status will conform to Graduate School and departmental requirements for such transfer.

The program for the Master of Science in Education degree, with a major in educational administration includes a basic fundamental core, an educational foundations sequence, research and tool subjects, and selected specialized courses. A research paper and a comprehensive oral examination are also required. The department stresses the advantage of an academic field teaching major for all educational administration students. An applicant for the degree is expected to have two years of successful teaching experience and must be able to meet the general administrative certification requirements of his respective state before the master's degree is conferred.

The regulations for the master's degree, with a major in instructional supervision, parallel those for the degree in educational administration. Students in this area normally select specialized courses in supervision and curriculum appropriate to their goals as supervisors, (i.e. elementary, secondary or both). The department encourages a cross-departmental approach in the selection of appropriate courses for individual programs.

#### *Sixth-Year Specialist's Certificate*

Admission standards for the Sixth-Year Specialist's certificate program parallel the admission requirements for the Doctor of Philosophy degree program. All candidates must have the master's degree or its equivalent. Prerequisites to this program include the required courses for the Master of Science in Education degree in educational administration which are not included in the student's master's degree program.

At least 16 hours in graduate courses will be taken in foundation fields of educational administration, at least 16 hours in the area of administrative specialization, at least 8 hours either in an internship or practicum, and five hours in a field study.

The Sixth-Year Specialist's certificate program will be designed by the candidate and his adviser subject to the approval of the advisory committee to the department. Specific courses and the sequence in which they are to be taken must be approved by the advisory committee. The department requires a comprehensive written examination as the final step toward the sixth-year program.

#### *Doctor of Philosophy*

Educational administration and foundations participates in the doctoral program in education in the functional area of educational administration and social and philosophical foundations. Students interested in educational administration and in social and philosophical foundations may pursue an equivalent of a major within the area program. For additional information on the Ph.D. in Education see the preceding section above. Inquiries should be addressed to the coordinator for the area of educational administration and social and philosophical foundations in the College of Education.

#### **Elementary Education**

Graduate programs in the Department of Elementary Education lead



to the Master of Science in Education degree and the specialist's certificate, and contribute to the Doctor of Philosophy degree program in education.

Each graduate major in elementary education and in early childhood education for the Master of Science in Education degree consists of a total of 48 hours. Programs have been developed to serve a variety of specialties in the field of elementary education such as: language arts, reading, social studies, elementary mathematics, elementary science, supervision of elementary subject areas. Courses are also offered which support the program in elementary administration, although students seeking certification or a degree in this field major in the Department of Educational Administration and Foundations.

Each graduate program includes certain required courses, guided electives, and related courses in liberal arts. All programs must be planned with and approved by the graduate advisers in elementary education or in early childhood education. Specific course requirements for a given program may be obtained upon request from the Department of Elementary Education.

Students in early childhood education who have not had psychology or Guidance 412, or Sociology 427, or Health Education 312, or the equivalent of one of these, are required to take four hours in psychology or guidance. Educational Administration 554 or 555 or the equivalent is required.

Elementary Education participates in the doctoral program in education in the functional area of curriculum and instruction. Students interested in elementary education may pursue an equivalent of a major within the area program. For additional information on the Ph.D. in Education, see the preceding section entitled education. Inquiries should be addressed to the coordinator for the area of curriculum and instruction in the College of Education.

### *The Master's Degree*

In lieu of a thesis, students are required to write a research paper and take Guidance 422a or its equivalent and Educational Administration 500.

A total of from 8 to 12 hours should be selected from departments outside of the College of Education.

At least 24 hours must be on the 500 level.

Those who have undergraduate degrees in other fields, regardless of teaching experience, are required to complete, without graduate credit, at least four hours of elementary methods (314 or equivalent) and eight hours of elementary student teaching. The teaching must be done in residence at a university or college approved by the National Council for Accreditation of Teacher Education.

Any student taking graduate courses without first being approved by his adviser risks having work not accepted for the degree.

### *The Sixth-Year Specialist's Certificate*

The Sixth-Year Specialist's Certificate Program requires 45 quarter hours of work. The program is individually planned to meet the student's professional objectives. Part of the program includes a project which shows the ability to conduct individual investigation.

### *The Doctor's Degree*

The Doctor of Philosophy degree in education with a major in curriculum

and instruction with emphasis in elementary education requires 96 hours beyond the master's degree. The applicant is approved only after admission to the curriculum and instruction functional area. The tools of research requirement of the Graduate School must be met. Required also are completion of the preliminary examination in the field of specialization and the dissertation. The program has certain core requirements but is individually planned to meet the professional needs of the student. Opportunities are available for a strong subject-matter minor if one is interested, for instance in a special subject-matter field in the elementary school. Write to the chairman of the Department of Elementary Education for detailed requirements.

### **Engineering**

The course of study in engineering provides the student with the basic scientific and engineering knowledge necessary to the solution of the complex problems of a modern technological society. The engineer's work revolves around the application of scientific principles from such areas as physics, chemistry, geology, and mathematics, and the application of analytical abilities to the solutions of problems involving design, analysis, and prediction.

Course work is available in the areas of systems design and theory, information theory and processing, energy conversion, materials and environment. Individual programs of study are developed for each student by an adviser and an advisory committee.

A student must be admitted to the Graduate School and accepted in the degree program by the School of Technology. When he has been accepted, the student should consult the assistant dean for graduate studies of the School of Technology who will designate a faculty member to serve as the student's adviser.

Teaching and research assistantships are available to qualified students. Additional information may be obtained from the office of the dean of the School of Technology.

### **Engineering Technology**

(See Applied Science)

### **English**

Graduate courses in English may be taken for major or minor in the Master of Arts program, for a major in the English as a Foreign Language program leading to the Master of Arts degree, for the subject-matter major in the Master of Science in Education program, and for the Doctor of Philosophy degree. Inquiries about admission to graduate study in English should be sent to the director of graduate studies in English, Department of English, Southern Illinois University, Carbondale, Illinois 62901.

For the Master of Arts degree in English, the student must satisfy the following requirements:

1. Complete at least 48 hours of satisfactory graduate work.
2. Take English 500 in the first term it is available to him.



3. Take a course in the English Language or in linguistics.
4. Take English 585 (required only of teaching assistants).
5. Pass the Educational Testing Service examination for one foreign language, normally either French or German.
6. Submit to the director a clean copy of that research paper which best represents his abilities and accomplishments.
7. Pass the master's comprehensive examination.

For the Doctor of Philosophy degree in English, the student must satisfy the following requirements:

1. Complete at least 96 hours of course work, including work taken for the Master of Arts degree.
2. Present evidence of competence in the English language and linguistics, normally by completing the appropriate courses with a grade not lower than *B*.
3. Take at least one course in each of the following fields: English literature to 1500, 1500 to 1660, 1660 to 1800, 1790 to 1900, 1885 to date, and American literature.
4. Present evidence of competence in two foreign languages, normally French and German.
5. Pass preliminary examinations in English and American literature.
6. Submit a satisfactory dissertation, credit for which may not exceed 48 hours.
7. Pass the final oral examination.

For the Master of Arts degree in English as a foreign language (an inter-departmental degree) the student must satisfy the following requirements.

1. Take 28 hours of theoretical linguistics: English 400, 405a,b, 504, 505; Anthropology 401, 413.
2. Take 13 hours of applied linguistics: English 588a,b,c, 569.
3. Take 7 hours of related electives.
4. Pass a written comprehensive examination.
5. Submit to the chairman of the EFL program a clean copy of that research paper which best represents his abilities and accomplishments.
6. Maintain a *B* average for the first 26 hours of graduate course work.

### Foreign Languages

For the Master of Arts and Master of Science in Education degrees, major and minor are offered in French, German, and Spanish. A minor may be taken in Russian.

For the Master of Science in Education degree, Romance Philology 410 is required for students in French and Spanish, and for those in German, German 413 is required. For the Master of Arts degree in French and Spanish, Romance Philology 410 and three hours of either French or Spanish 515 are required. All romance philology courses may be counted toward either French or Spanish specializations. For the Master of Arts in German, German 413 and 533 are required.

Normally the bachelor's degree and a minimum of 27 hours in courses on the junior-senior level, or the equivalent, constitute the prerequisite for registration in graduate courses. However, students who do not meet this requirement may register for specific graduate courses with the



consent of the instructor and the authorization of either the chairman of the department or the chairman of the graduate committee of the department.

### **Forestry**

The Department of Forestry offers advanced courses for the Master of Science degree. Collateral course work in other departments of the University is recommended but varies with a student's specific program. The major forestry disciplines emphasized are: forest recreation and park management; forest resource economics; wood science and forest products; silviculture; tree breeding and improvement; forest biometrics; and forest watershed management. Also at the master's level a more diverse program in outdoor recreation resource management is offered to students with or without forestry undergraduate training. This program includes a basic core composed of Management 540; Recreation 500; Forestry 450; Forestry 451a,b; Forestry 575. The remainder of the course work consists of selected electives which enable the student to combine his earlier academic experiences with a concentration in economic, natural, or social resources at the outdoor recreation resources management level.

In addition, cooperative curricula are available which permit graduate forestry students to enroll in Doctor of Philosophy programs with other departments. Syllabi are arranged on an individual student basis, emphasize an interdisciplinary approach, and orient within the biological, physical, or social sciences.

All candidates for the Master of Science degree will be expected to complete original research in some field related to forestry or outdoor recreation resources. For those concentrating in forestry this research shall lead to the completion of a thesis which will be governed by the rules of the Graduate School. Students in the outdoor recreation resource management program may elect either a thesis problem or a research problem. Competence in a foreign language is desirable but not required. The same number of minimum hours required by the Graduate School are acceptable to the Department of Forestry. Three letters of recommendation are requested in support of each candidate before he is accepted for graduate study. Additional details can be obtained by writing the Department of Forestry.

### **Geography**

The Department of Geography offers programs leading to the Master of Arts, Master of Science, and Doctor of Philosophy degrees. It also offers a concentration in geography as part of the Master of Science in Education program in secondary education.

The department offers particularly strong programs at both the master's and doctor's levels in several fields. Most important of these programs at present are in urban geography, regional economic development, industrial and transport geography; historical geography; cultural geography; climatology; resource management; and the geography of Africa and Latin America.

### *Master's Degree*

Although there are several programs at the master's level, the basic objectives in each of these programs are the same.

- A. Students are expected to develop and demonstrate a basic breadth of knowledge apropos of a professional geographer. Demonstration of breadth is achieved by satisfactory completion of pro-seminars in physical, cultural, and economic geography.
- B. Students are expected to identify a specific professional goal and develop with their adviser a satisfactory schedule of courses to achieve penetration in depth in a specialization accordant with their professional goal. Penetration in depth is demonstrated by a satisfactory qualifying examination and preparation of an acceptable thesis or its equivalent.

All entering students will be assigned a program adviser during their first quarter in residence. Normally, the entering student enrolls in Geography 505, and at the completion of this course selects an adviser with whom a course program will be designed to remedy any deficiencies and to meet his stated professional objectives.

On May 1 of the student's first year in the program, he will take a two-hour written examination which will be followed one week later by a one-hour oral examination. The objective of this two part examination is to examine the concepts, method, and reasoning power within the framework of the student's specialization. This examination and the student's overall performance during the first year will be evaluated and determine whether the student is to continue or discontinue in the program. Upon favorable recommendation, the student must then present a preliminary thesis proposal for discussion before his advisory committee. A thesis proposal is considered part of the qualifying examination and must be completed before the student can proceed into the second year of the master's program.

For the Master of Arts degree, a student must give evidence of a reading competence in one modern foreign language, preferably French, German, or Russian. This can be accomplished by the successful completion of the ETS Language Examination administered by the Graduate School. For either the Master of Science or Master of Science in Education degree evidence of competence in quantitative techniques is required instead of the language.

Candidates for the Master of Arts or Master of Science degree may or may not present a minor. Candidates for the Master of Science in Education degree must work out a program acceptable to the College of Education. For any graduate degree, students without a minor may receive credit toward their degrees in geography for courses in other departments approved by their advisers.

The normal load ranges from 8 to 12 hours per quarter. Although the 48 hours required for graduation can be accomplished in four quarters, the department suggests that students who have assistantships think of six quarters as the time normally required to complete the master's degree. This longer time allows the student to complete a richer program and to spend adequate time in writing the thesis or its equivalent.

#### *Doctor of Philosophy Degree*

The objective of the Doctor of Philosophy degree program in geography is to develop scholars who can effectively carry on and present original research within the field of geography. To achieve this objective a general program has been designed to permit individual students maximum flexibility and penetration of geographic research in depth.

In addition to the general requirements of the Graduate School, the



department has five prerequisites for admission to the departmental program:

1. A set of personal and professional data forms provided by the department must be completed and returned to the departmental chairman.
2. A statement of individual immediate and long range professional goals must be prepared by the student and submitted to the departmental chairman along with the completed personal and professional data forms.
3. Three confidential letters of recommendation must be sent to the department chairman from faculty of schools the student has previously attended. It is the responsibility of the student to contact the three faculty members and request that the letters be sent. In the case of foreign students, three confidential letters of evaluation are to be submitted to the departmental chairman rather than the letters of recommendation.
4. Evidence of attainment of a master's degree or its equivalent must be provided in the form of appropriate official transcripts.

The doctoral program is composed of four chronological stages culminating in the final acceptance of the dissertation. The first stage is a program of courses worked out between the student and his advisory committee to take advantage of the student's previous professional preparation, interests, and abilities, and to remedy any weaknesses in his background. Courses comprising this stage will be built from the following major elements implemented by specific courses approved by the student's advisory committee: (a) a core of courses in geographic methodology, (b) a series of courses, seminars, and independent research courses in his field of specialization, course work in cognate fields to supplement his specialized training, and (c) training in the skills of scholarly research—language, statistics, and cartography. Specific courses will be recommended only in those areas where a student lacks a demonstrated competency. However, students should understand that the completion of a minimum of 48 hours of course work need not necessarily suffice for the completion of requirements. The true measure is professional competence.

Regarding the basic tools of graduate work as required by the Graduate School, the Department of Geography will offer the student the option of displaying competence in any two of the tools—foreign language, statistics, or computer language—which are appropriate for his own professional goals.

The second stage is the qualifying examination which is taken at the completion of formal course requirements and upon the recommendation of the student's advisory committee. This is followed by admission to candidacy upon satisfactory performance on the qualifying examination. Finally, there is the dissertation which must be approved by the student's advisory committee and orally defended before an examining committee appointed by the dean of the Graduate School.

### **Geology**

The Department of Geology offers programs leading to the Master of Arts and Master of Science degrees. Appropriate programs are given



for minor related to anthropology, geography, zoology, and soils. Preparation for teaching earth science at the high school level is undertaken in cooperation with the College of Education and other science departments.

The department cooperates with an all-university program to prepare students for work in the areas of conservation, recreation and outdoor education, and natural science; a major or minor in geology directed toward this end may be obtained.

The aim of the master's program is to give the student competence in the basic fields of geology stressing field mapping, crystallography, petrology, paleontology, stratigraphy, geomorphology, and mineral deposits, including petroleum. Specialization is encouraged only after this proficiency is attained.

The master's candidate must give evidence of competence in the basic sciences through formal courses or proficiency examinations. There must be a minimum of 48 hours of graduate credit. Reading knowledge of a foreign language must be demonstrated by passing the Educational Testing Service Examination in that language.

Before undertaking the thesis a general examination, written or oral, is given; the master's oral examination is then concerned primarily with defense of the thesis.

Southern Illinois and adjacent areas offer a wide range of geological conditions ideal for class and individual study and research. Staff members are engaged in continuing study of the region and encourage participation by qualified students. The Illinois Geological Survey actively supports the work in this state.

### **Government**

Graduate courses in government may be taken as major or minor leading to the Master of Arts degree, as a part of a social studies major toward the Master of Science in Education degree, and as a major leading toward the Doctor of Philosophy degree.

The subject-matter fields in which students concentrate their study are:

1. American National Government
2. State and Local Government
3. Public Law
4. Public Administration
5. Political Dynamics and Behavior
6. Comparative Government
7. International Affairs
8. Political Theory

All candidates for graduate degrees will be expected to select one of these areas of concentration as their major field and to demonstrate special competence both in that field and in a limited number of other areas of concentration.

Departmental processing of applications for acceptance as a graduate student in government is the joint responsibility for the department's director of graduate studies and its graduate admissions committee.

The director of graduate studies serves as adviser for all graduate students until such time as an advisory committee is named for the individual student. This should be done by the end of the second quarter in residence.

### *The Master of Arts Degree*

Requirements for admission imposed by the department are in addition to those of the Graduate School. The department will ordinarily consider accepting as potential candidates for the master's degree only persons who have graduated from an accredited four year college or university with a 3.70 grade point average and who have completed a minimum of 21 quarter or 14 semester hours in the field of government or political science. Persons who do not meet these minimal requirements or their equivalent can be considered for acceptance only on a petition to the department's graduate admissions committee which, if granted, will indicate the deficiencies to be made up by work that will not be counted toward the Master of Arts degree.

A minimum of 48 quarter hours of credit, no more than 9 of which may be for the thesis, constitutes the basic course requirements for the Master of Arts degree. At least 24 of these hours must be in courses at the 500 level. The course work must be so planned as to include at least 9 hours of work in each of two areas other than the one in which the thesis is to be written.

A student who completes only the minimum of 48 hours of course work may devote no more than 9 of those hours to courses outside the department unless the work is in a cognate field which has been approved as a replacement for one of the areas of concentration within the department. In the latter event, as many as 16 hours in outside fields may be counted within the 48 hour minimum.

Each candidate for a Master of Arts degree must include in his studies the departmental course in the scope and method of political science (Government 499).

A student must maintain an over-all 4.00 grade point average in order to be eligible for the Master of Arts degree, and no more than 9 hours of work with a grade of C may be counted toward the Master of Arts. A student whose work at any time falls significantly below this average may be dropped from the graduate program after consultation between his adviser and the director of graduate studies.

Proficiency in one modern foreign language is one of the University's requirements for the Master of Arts degree. This proficiency must be demonstrated by passing the Educational Testing Service foreign language examination in that language.

A thesis of the usual form and scope is required for the Master of Arts degree by the Department of Government. This requirement may be satisfied by an authorized internship report. A research paper in lieu of a thesis can be accepted only with the prior approval of the department's graduate admissions committee and the consent of the dean of the Graduate School. Additional course work will not be accepted in lieu of a thesis.

The final oral examination will cover the thesis and the major area in which it was written, and it may also test the candidate's competence in his minor area as well as his general familiarity with the fundamentals of government.

### *Doctor of Philosophy Degree*

Requirements for this degree imposed by the department are in addition to those of the Graduate School. The department will ordinarily con-



sider accepting as potential candidates for the Doctor of Philosophy degree only persons who have successfully completed the work for a Master of Arts degree or its equivalent in government or political science, at an accredited college or university, with a 4.50 grade point average in all courses that have been taken for graduate credit. Applicants whose previous graduate work was not primarily in government or whose academic record is not up to the standard indicated may be considered for admission only on a petition to the department's graduate admissions committee which, if granted, will be accompanied by a statement specifying the course work that must be completed without credit toward the Doctor of Philosophy degree before the applicant has unconditional standing.

An application for admission is made to the Graduate School on the basis of previous academic work. The applicant should also submit to the director of graduate studies a vita sheet giving an indication of the student's academic and practical experience to date and a broad statement of his purpose in undertaking studies for the doctorate. The student should, further, ask at least three of his former teachers to send letters to the director evaluating the applicant's ability to pursue advanced graduate studies.

A minimum of 48 quarter hours of credit, exclusive of work on the dissertation, beyond the Master of Arts degree constitutes the basic course requirements for the Doctor of Philosophy degree. The course work must be so divided between the various areas of study to supplement work previously taken by the candidate, in a measure sufficient to prepare him for the preliminary examinations. At least 15 of the 48 credit hours must be in courses at the 500 level.

The plan of studies approved for the student may include appropriate work outside the Department of Government. A student is to select his minor only with the approval of his doctoral advisory committee.

Competence in two foreign languages, or one language and statistics, is required of each candidate for the Doctor of Philosophy degree. The choice of languages is to be approved by the department and the Graduate School. The language requirement must be satisfied before the preliminary examination for the doctorate is taken.

The substitution of statistics for one language is also subject to department approval and, if granted, will require completion with a minimum grade of *B* of one of the following statistics course sequences or an approved equivalent: Guidance 422b or Psychology 421, 522a,b; or Mathematics 410a,b,c,d; or 480 a,b,c.

A preliminary examination is given only when the applicant has completed his course work and has met the language requirements. It consists of both oral and written parts, completed in a two-week period.

A dissertation showing high attainment in independent, original scholarship and creative effort must be completed in meeting the final requirements of the degree of Doctor of Philosophy. The final examination is oral and devoted primarily to a defense of the dissertation.

### **Guidance and Educational Psychology**

The Department of Guidance and Educational Psychology offers programs in several areas at several levels. The Master of Science in Education degree, Sixth-Year Specialist's certificate program, and Doctor



of Philosophy degree in education are awarded after completing an appropriate series of learning experiences in an approved curriculum.

#### *Admission and Advisement*

Admission to the programs just described is from admission to the Graduate School. Persons seeking admission should make application through forms which may be obtained from the department. Completed forms together with test scores constitute an admission dossier which is reviewed by a standing committee. Admission is generally granted six weeks before the beginning of a quarter and applicants should file materials well in advance of a term in which they desire admission. Advisement for all programs of the department is decentralized and students are assigned to members of the faculty at the time of admission.

#### *Master's Degree in Guidance*

The master's program offers two 48-hour curricula in elementary and secondary guidance. Both curricula are designed for persons seeking Illinois teacher certification and presume either prior completion of Illinois teacher certification curricula or concurrent completion.

#### *Master's Degree in Educational Psychology*

A 48-hour curriculum in educational psychology is available for persons seeking preparation in the analysis of learning and child study. It is not related to teacher certification but is intended to provide a basis for advanced work in educational psychology at the doctoral level.

#### *Sixth-Year Specialist's Certificate*

In elementary or secondary guidance the Sixth-Year Specialist's Certificate is awarded to persons of superior academic performance. Enrollment in this program is also limited. It should not be confused with the Doctor of Philosophy curriculum which will be discussed shortly.

#### *Doctor of Philosophy*

Guidance and Educational Psychology participates in the doctoral program in Education in the functional area of educational psychology. Students interested in counseling, educational measurement and statistics, and human learning may pursue an equivalent of a major concentration within the area program. For additional information on the Ph.D. in education, see the preceding section entitled education. Inquiries should be addressed to the coordinator for the area of educational psychology in the College of Education.

### **Health Education**

Master of Science in Education degree programs are offered in health education. The candidate may select from three areas: school health education, community health education, and safety education. In school health and safety education, two programs may be followed: (1) a minimum of 24 hours in health education, a minimum of 16 hours in a minor field, and 8 hours, with departmental approval, from other graduate courses in the University; or (2) a maximum of 40 hours in health education and 8 hours from offerings in the field of education having departmental approval.

The program in community health education extends over four quarters of study with 60 quarter hours required for the degree. Required courses for the degree in community health are Health Education 488, 489, 500, 511, 533, 590, Food and Nutrition 404, Radio-Television 367, and Journalism 393.

Qualified candidates wishing to pursue a program leading to the Doctor of Philosophy degree in education with specialization in health education will receive individual guidance from the department.

### **Higher Education**

The Department of Higher Education offers programs leading to the Master of Science in Education degree and courses contributing to the Doctor of Philosophy degree in education.

Specialties within the Doctor of Philosophy degree program include: academic administration, college student personnel administration, business affairs administration, institutional and coordinating agency studies, selected or inter-disciplinary research. For further details, including information on the work and financial assistance available through administrative internships for doctoral students, write the department chairman.

The two-year program in college student personnel work leading to a Master of Science in Education degree (72 quarter hours) combines formal studies and field experiences. There are (1) courses in the organization, operation, and theory of college student personnel services; (2) courses in other aspects of higher education, including its history, organization, finance, curriculum, theory, and issues; (3) courses in supporting areas of the behavioral sciences and research, including personality theory, learning theory, psychopathology, group dynamics, counseling theory, and psychological measurement; (4) courses in elective areas of education or liberal arts and sciences, to strengthen professional needs; and (5) the equivalent of a full academic year of student personnel work with both men and women.

Admission to the college student personnel program is by a selection committee composed of representatives of the Department of Higher Education and the Student Affairs Division. Qualifications include a bachelor's degree, an undergraduate grade point average acceptable for admission to the Graduate School and the selection committee, as well as personal qualities appropriate for living with and advising students or for effective work in university offices serving students.

Financial assistance in the form of resident hall fellowships entitling a student to room, board, and remission of tuition, as well as a limited number of graduate assistantships are available. Highly qualified students enrolled in any program in the department are eligible for fellowships granted through the Graduate School. For further details write the chairman, Department of Higher Education.

### **History**

History may be chosen as a major or minor for the Master of Arts degree and as the subject-matter major in the Master of Science in Education degree. A candidate for either degree must consult the graduate adviser in history before registering for courses.



For the Master of Arts in History degree, 48 quarter hours of satisfactory graduate work are required; at least 24 of these 48 hours must be on the 500 level. Within this overall requirement, at least 32 quarter hours must be in appropriate history courses, with at least 16 of the 32 hours on the 500 level. The remainder of the hours may be taken in courses on the 400 level. The Department of History strongly recommends that each candidate be enrolled in at least one 500-level course each quarter during his first three quarters in the program. A candidate for the Master of Arts degree must pass a reading examination in a modern foreign language. He may elect to fulfill the research requirement through either the thesis or the non-thesis program. A candidate in the thesis program should, with the approval of the chairman, select a thesis adviser and a thesis topic by the end of his second full-time quarter in the program, and he must pass an oral examination after the thesis has been accepted. A candidate in the non-thesis program must present two satisfactory research papers prepared in seminars, and he must pass a written examination in two different fields of history as established by the department.

Teaching assistantships and graduate fellowships are available to qualified students. Additional information concerning the graduate program in history may be obtained by writing to the chairman, Department of History.

### Home Economics

The Master of Science and Master of Science in Education degrees with a major in home economics are available with specializations in:

1. Clothing and Textiles (including interior design)
2. Food and Nutrition
3. Home and Family
4. Home Economics Education

Work toward the Doctor of Philosophy degree is available in home economics. The Letitia Walsh award-loan of \$5,000 is available for Doctor of Philosophy candidates in home economics.

### *Prerequisites for Admission to Graduate Study*

1. Admission to the Graduate School.
2. Completion of a curriculum in home economics or in a field related to the area of specialization, such as biological, physical, and social sciences, art, business, and communications. When necessary, deficiencies may be made up concurrently.
3. Satisfactory scores on the Graduate Record Examination.
4. An undergraduate grade point average equivalent to 3.70 or above. Conditional admission may be granted where the grade point average is above 3.40 but below 3.70.
5. A scholastic record that indicates ability to pursue advanced study in the chosen field.
6. Demonstrated ability to write effectively as indicated by scores in English composition. In the case of foreign students an official statement showing sufficient proficiency in English is required.
7. The student attains full graduate standing in home economics when he has met the above requirements and has made satisfactory scores on the Ohio State Psychological Examination.



*Requirements for the Master of Science in Home Economics*

In addition to the general requirements of the Graduate School, requirements for the master's degree in home economics are the following:

1. Thirty to thirty-two quarter hours in the field of specialization plus 16–18 quarter hours in approved related fields with a minimum total of 48 quarter hours, 24 of which must be in courses at the 500 level.

2. The required courses for all master's degrees in home economics are: Home Economics Education 451 or equivalent for transfer graduate students, Guidance 422b or equivalent, and Educational Administration 500. A thesis or research paper is required.

Additional requirements may be specified for each major. It is expected that the individual program will be planned by the student and the adviser to supplement the student's previous training and experience, with due consideration given to the student's objectives.

*Requirements for the Master of Science in Education*

Thirty-two hours in the field of home economics are required for a major with a 16-hour minor in education. The student's graduate committee may require a program including additional credit. Required courses are Guidance 422b or equivalent, Home Economics Education 415, 500, 505, 506, 599 (Thesis). As an alternative to writing a thesis, specific courses on the graduate level as recommended by the student's advisory committee and approved by the dean of the Graduate School may be taken; each student who does not write a thesis must submit to the Graduate School, for its permanent records, a copy of a research paper as evidence of his knowledge of formal research techniques.

*Prerequisites for Admission to Advanced Graduate Study*

1. Prerequisites 1, 2, 3, 5, and 6 as listed above under Admission.
2. Recommendations from three or four former teachers or supervisors whose names the student has submitted.
3. Admission is granted to a student whose grade point average is 4.25 or above and whose scholastic record in the chosen major field indicates ability to pursue advanced study.

*Requirements for the Doctor of Philosophy*

In addition to the general requirements of the Graduate School, requirements for the Doctor of Philosophy degree in home economics are the following:

1. A minimum of 144 quarter hours, including the dissertation, beyond the Bachelor of Science degree is required; this may include all or part of the 48 hours earned while working for the master's degree. A minimum of 48 hours is required from related fields outside of home economics.

2. Qualifying interview—the student shall request a meeting of the temporary advisory committee during the first or second quarter in residence, depending on whether he is carrying a full-time or a part-time program.

3. Competence in at least one foreign language and in statistics. The candidate is expected to satisfy these requirements before taking the examination preliminary to starting dissertation research.

4. The preliminary (comprehensive) examinations—a candidate for the Doctor of Philosophy degree shall make application for the oral and

written examinations after he has completed the above requirements and approximately two-thirds of the advanced course work.

5. Admission to candidacy—after successfully passing the preliminary examinations and receiving provisional approval of the tentative plans for the dissertation, the student will be admitted to candidacy for the Doctor of Philosophy degree. This should be done before the third quarter preceding the anticipated date of graduation, and no student will be approved to graduate unless six months have elapsed between admission to candidacy and graduation.

6. Satisfactory completion of a final examination at which the student will defend the dissertation.

The time between the comprehensive and final examination for any student cannot exceed five years.

### **Instructional Materials**

Graduate courses in instructional materials may be taken for a major toward the Master of Science in Education degree, for a minor in library service, for a minor in audio-visual education toward the Master of Science in Education degree, or in support of a learning resources specialty in the doctoral area of educational psychology.

The graduate major concentration in Instructional Materials, toward a Master of Science in Education degree, involves professional training in both audio-visual education and school library service. It meets the state and national certification standards for full-time school librarians and the standards recommended by the Department of Audio-Visual Instruction of the National Education Association. In Illinois every school librarian is also required to have a teaching certificate.

Fifty-two hours are required for the major. No minor is required. At least 26 hours must be in courses numbered 500 or above. The following courses are required: 403, 405, 406, 407, 417, 420, 445, 510, 514, 546 and 12 hours from 440, 448, 450, 457, 458, 470, 530, 547, 548, 549, 554, 560, 576, and 599.

The minor in school library service is offered for students taking a major in another area. This, consisting of a minimum of 15 hours, is intended primarily for teachers who wish to obtain an appreciation of literature for children and adolescents. It is not intended for the preparation of professional school librarians. The following courses are required: 405, 406, 514, and at least 3 hours from 420, 510, 530, and 576.

The minor in audio-visual education is also offered for students taking a major in another area. It is intended primarily to prepare audio-visual directors and coordinators. It meets the certification recommendations of the state and national audio-visual organizations. The following courses are required: 417, 448, 546 and at least 3 hours from 440, 445, 457, 458, 547, 549, 560, and 576.

The Doctor of Philosophy degree in education with a concentration in learning resources comes under the functional area of educational psychology. The procedures and qualifications are those established by the educational psychology functional area and information can be obtained by writing to the coordinator of the educational psychology functional area, College of Education.

The doctoral program in learning resources is designed for those individuals who wish to become directors of instructional materials in



the large city, college, university, or industry where the scope of the program will require, under the director, separate specialists in both the audio-visual and library fields. The graduate of this program should be able to plan long range activities for his unit, work with curriculum committees, with administrators, and with specialists such as psychologists, research directors, and directors of reading centers.

For further information concerning major and minor programs, work experiences, job opportunities, or other related matters, consult the chairman, Department of Instructional Materials.

### **Inter-American Studies**

Course work in the inter-American studies field is offered by the Departments of Anthropology, Economics, Foreign Languages, Geography, Government, and History.

Prerequisites for the Master of Arts degree include a command of the Spanish language adequate to meet the student's needs for research and communication within the area of his program. The director of the Latin American Institute and the supervisory committee will determine the student's linguistic competence on registration and, where necessary, specify what the student must do to improve his proficiency in Spanish. Whenever the student's program involves the need for Portuguese or French, he will also need to demonstrate or attain satisfactory proficiency in that language. In addition, a satisfactory basic preparation in inter-American studies is required.

#### *Requirements for the Master of Arts Degree*

1. The completion of at least 30 hours of courses acceptable for graduate credit in one of the above listed departments.
2. The completion of a minimum of 18 hours of related studies approved by the student's supervisory committee which will meet the requirement for a minor in the Latin American Institute. A maximum of three areas is permitted in the field.
3. The completion of a satisfactory thesis on a Latin American topic in the major for which 5 to 9 hours of credit are given.

A minor in inter-American studies for those students with a major in a department outside of the institute will consist of a minimum of 18 hours to be taken in two of the participating departments. Specific course programs will be worked out by the director of the institute in consultation with the chairmen of the departments involved.

In every case the student's final program must be approved by the graduate supervisory committee, acting under policies established by the Latin American Institute and the Graduate School.

### **Journalism**

Courses in journalism leading to the Master of Arts, Master of Science, and Doctor of Philosophy degrees are offered by the Department of Journalism. Candidates for a master's degree must complete 48 hours of graduate work, half in professional journalism courses, the remainder in courses in the liberal arts, including a thesis demonstrating a capacity for investigation and independent thought. Candidates for the Master of Arts degrees must demonstrate competence in a foreign language.



Each doctoral program is designed to fit the needs of the individual while satisfying requirements of the Department of Journalism and the Graduate School. Among minimum requirements are 96 hours of graduate-level courses beyond the bachelor's degree, to include a minimum of 36 hours of advanced journalism courses and 24 hours each in two other approved related fields. Doctoral students will be examined over their three academic areas of concentration, write a dissertation, and meet all requirements of the Graduate School.

### **Mathematics and Mathematical Sciences**

Graduate work in mathematics and mathematical sciences is offered leading to the Master of Arts, Master of Science, and Doctor of Philosophy degrees. Major or minor work for the Master of Science in Education degree and minor work for graduate degrees in other fields are also offered. In addition to the general rules, regulations, and requirements of the Graduate School, the following specific requirements pertain to the various degrees available with a major in mathematics and mathematical sciences. The department should be consulted for complete details.

#### *Master of Arts Degree*

1. Course work must include: Mathematics 433, 501a,b, 520a,b, 530a, 555a,b. Graduate credit must total at least 48 hours.
2. Successful completion of the foreign language examination for the Doctor of Philosophy degree administered by the Department of Foreign Languages in one of the following: French, German, or Russian.
3. A thesis carrying 5 to 9 hours credit in Mathematics 599.
4. Satisfactory performance on a written examination (usually given in the spring quarter) in three of the following areas, including (1) and (2) in any case: (1) Real Analysis (452a,b,c, 501a,b,c); (2) Algebra (421a,b, 520a,b,c); (3) Topology (433, 530a,b); (4) Probability and Statistics (480a,b,c or 483a,b,c); (5) Complex Variables (555a,b,c).
5. Satisfactory performance in an oral examination over the thesis and such other material as the examining committee may deem appropriate.

#### *Master of Science Degree*

1. Course work must include the following: (1) 421a,b, and 433, (2) at least 3 hours from 455, 555a,b,c, (3) either 501a,b, or 555a,b, (4) either 520a,b or 530a,b. Graduate credit in mathematics must total at least 48 hours.
2. Demonstrated reading competence in mathematics in one of the following languages: French, German, or Russian; by an examination as for the Master of Arts as described above or by an examination administered by the Department of Mathematics.
3. A research paper carrying 3 hours credit in Mathematics 595.
4. Satisfactory performance on a written examination (usually given in the spring quarter) in three areas as follows: (1) either real analysis or complex variables as described under 4 for the Master of Arts; (2) either algebra or topology as described under 4 for the Master of Arts; (3) one other of the five specialties described under 4 for the Master of Arts or the material covered in a two- or three-quarter 500-level sequence in mathematics not listed under 4 for the Master of Arts.

5. Satisfactory performance in an oral examination over the research paper and such other material as the examining committee may deem appropriate.

### *Master of Science in Education Degree*

This degree is given in cooperation with the Department of Secondary Education, with the Department of Mathematics administering the major in subject matter.

1. A minimum of 32 hours of mathematics is required, including Mathematics 547 and 592. Courses must be taken that will provide competence in algebra, analysis, geometry, and probability. Specific courses are chosen to fit the background and needs of individual students.

2. A research paper in mathematics education is required and may be written in connection with course 592.

3. A comprehensive written examination over mathematics and education must be passed satisfactorily.

### *Doctor of Philosophy Degree*

1. A master's degree in mathematics indicating performance acceptable to the department at the level of graduate work described under 4 for the Master of Arts degree or satisfactory performance on a qualifying examination comparable to that degree.

2. Demonstrated reading competence in mathematics in two of the languages: French, German, or Russian. This will ordinarily be done as under item 2 for the Master of Arts degree.

3. At least 48 hours of course work beyond that required for the master's degree; at least 24 hours of the 48 must be at the 500 level.

4. Satisfactory performance on a preliminary examination (generally consisting of both written and oral parts) over three of the four fields: (1) algebra; (2) analysis; (3) topology and geometry; and (4) statistics and applied mathematics. Normally, algebra and analysis must be included and one of the others may (with the approval of the Department of Mathematics) be replaced by a minor outside mathematics.

5. A dissertation (representing at least 36 hours of credit in Mathematics 600) demonstrating the candidate's capacity for original and independent research in an area of concentration chosen from the four listed in item 4 above. The candidate will also be examined orally on his dissertation.

## **Microbiology**

Graduate courses in microbiology may be taken as a major or minor leading to the Master of Arts and Master of Science degrees, or as a part of a biological sciences program leading to the Master of Arts, Master of Science, and Master of Science in Education degrees.

The Doctor of Philosophy degree in microbiology will be awarded to a candidate in recognition of achievement in independent research and in advanced studies. His original contribution to knowledge, evidenced in the dissertation, together with a superior comprehensive scholarship record and satisfactory completion of prescribed examinations are the criteria for the degree. Emphasis will be placed on his critical evaluation of, and familiarity with, the existent developments in microbiology and related areas of study.



The Department of Microbiology and the Biological Research Laboratory offer facilities for research in microbial genetics, cytology, radiation biology, physiology and biochemistry of microorganisms, medical microbiology, immunology, and virology. In addition to the library facilities, reprint collections covering many topics in microbiology are available for student use.

To be eligible for the Doctor of Philosophy degree, the student must satisfy the following requirements: (1) He must complete at least 144 hours of graduate work and research. Credit for research may not exceed 60 of the 144 hours; (2) He must demonstrate his proficiency in statistics and his ability to read, with reasonable facility, scientific literature in two modern languages; (3) He must pass the qualifying examination and a final oral examination; and (4) He must submit an approved dissertation based on his research.

A minor may be elected as part of a doctoral program in microbiology, subject to approval of the department, from courses in any program which constitute a major for the master's degree. A minor in microbiology for the doctorate in another biological science consists of general microbiology and 20 hours selected from courses offered and approved by the department.

### Music

The master's degree in music consists normally of a total of 48 hours of work in an area of specialty outlined below. Further work may be required in certain cases. Candidates for the Master of Music, Master of Music Education degree, or the Doctor of Philosophy degree in education who wish to choose applied music courses as electives will take the 400-series course in their major instrument or voice. Applied music majors in the Master of Music curriculum will take the 500-series course in their major instrument or voice for 4 hours per quarter. These are artist-level courses, and admission to them and to the degree program must be obtained from the chairman of the department after passing a jury examination.

Proficiency examinations will be given to all entering students and comprehensive examinations will be administered during the terminal quarter. Please consult the *Handbook for Graduate Study in Music* for more detailed information.

#### *Master of Music Degree*

Requirements include 18 hours in the major area for history-literature and theory-composition, and 12 hours for applied major concentration; Music 501-3, 502-6, 599-3 to 9 (thesis), and electives in music to make a total of 48 hours.

Thesis credit for the applied major may be met by presenting a full recital for 6 hours credit and a research document for 3 hours credit.

#### *Master of Music Education Degree*

A minimum of 12 hours must be in music education courses. A maximum of 8 hours may be elected in fields outside music after consultation with the adviser. Other requirements include Music 501-3, 503-3, and 599-9 (thesis, or 9 hours of course work as approved by the director of graduate studies), and electives in music to make a total of 48 not less than



hours, of which 9 hours must be in the areas of graduate theory and/or music literature. At least two quarters of ensemble experience are required and can be counted as part of the major.

### *Doctor of Philosophy Degree*

This doctoral program, in education, consists basically of 96 hours, including 30 in general education, 30 in music education and general music courses, and 36 in dissertation. Specific courses depend upon individual needs and will be determined through consultation with the student's program committee. The dissertation may be in the field of music education but should demonstrate general educational research techniques. To be admitted to this program, a candidate must have earned a 4.50 grade point average at the master's level in music and must score 50 per cent or above on the Miller Analogy test. Application for admittance to this program may be made through either the College of Education or the Department of Music.

For specific repertoire requirements in each course see the Applied Music Appendix of the Department of Music.

### **Philosophy**

The Department of Philosophy offers graduate work leading to the Master of Arts and Doctor of Philosophy degrees. Graduate courses in philosophy may be used also as a minor in programs leading to the Master of Arts or Master of Science in Education degrees. Students who do not plan to continue work in philosophy beyond the master's level are encouraged to elect a graduate minor or to combine philosophy with another subject in a 60-hour double major.

The department expects an applicant for admission to its graduate program to have had at least 24 hours' work in philosophy or closely related theoretical subjects, including at least one quarter in ethics, one in logic, and a year in the history of philosophy. The department may waive a portion of this credit requirement in favor of maturity and of quality and breadth of academic experience. The applicant will be required to make up serious background deficiencies by taking appropriate undergraduate philosophy courses without credit.

The Department of Philosophy requires the candidate for a master's degree to present a thesis, for which 9 hours of credit are allowed. He must pass two examinations: a written examination covering the nature and proffered solutions to the persistent problems of philosophy as dealt with by major philosophers from Thales to the present and an oral examination devoted chiefly to the thesis. In the written examination emphasis will be placed on such classical figures as Plato, Aristotle, Descartes, Spinoza, and Kant, but the student will be expected to answer questions involving at least two recent philosophers, one of whom will be an American.

A reading knowledge of one foreign language, usually French or German must be demonstrated by passing the Educational Testing Service examination in that language. The student who expects later to enroll in the Doctor of Philosophy degree program in philosophy is urged to take the language examination required in that program.

Applicants for the Doctor of Philosophy degree in philosophy should submit with their application forms scores for the Graduate Record

Examination. The department may, where other evidence of competence seems so to warrant, accept a candidate upon the condition that he later submit acceptable scores.

At the time of his acceptance in the program the student will be assigned an advisory committee who will help him plan a program of study designed to prepare him for admission to candidacy. After the student has accumulated at least 36 hours of credit beyond the master's degree, and before he begins work on the dissertation, he must take a written preliminary examination on the thought of one major figure in the history of philosophy and in the following four areas: history of philosophy; logic, methodology, and philosophy of science; metaphysics and theory of knowledge; and value studies.

Before he is allowed to take the preliminary examination the student must have demonstrated reading proficiency in two foreign languages.

After he has passed his language examinations and the preliminary examination and has completed 48 hours of work beyond the master's degree, the student is admitted to candidacy and assigned a doctoral dissertation committee which will supervise the research and writing leading to the dissertation. After the dissertation has been accepted by the committee, the student is given an oral examination on the dissertation and related topics.

The department has available each year a number of assistantships for qualified graduate students. Applications for these assistantships should be sent to the department before February 15 of the academic year preceding that for which the application is made. An effort is made to give every candidate for the doctor's degree supervised experience in teaching elementary work in the field of philosophy.

### **Physical Education**

Graduate courses in physical education may be taken as a major or minor toward the Master of Science in Education degree or the Doctor of Philosophy degree in education.

#### *Master's Degree*

The departmental requirements for unconditional admission as a master's degree candidate are:

1. Fulfillment of the requirements for admission to the Graduate School.
2. Presentation of at least an undergraduate minor (preferably a major) in physical education.
3. Presentation of an overall undergraduate grade point average of 3.70 or better.
4. Presentation of at least one undergraduate course in anatomy, physiology, or kinesiology and at least one in educational psychology or psychology of the particular field of the student's specialty.
5. Possession of the ability to teach and demonstrate an acceptable variety of physical education activity skills and techniques.

A student may be conditionally admitted to the program and be permitted to do graduate course work while he removes deficiencies.

Physical education courses required of all majors and minors are 400, 420, 500, 501, 511, 503, and 504. Certain other courses may be required to remedy weakness in a student's background preparation.



Requests for transfer of credit from other institutions will be considered only before admittance into this program.

This program is made up of 16–28 hours of required courses in physical education, 4–16 hours of elective courses in physical education, and 16 hours either in a minor area or in several fields, with no attempt being made to achieve a minor in any one field.

### *Minor*

Students with a major in a related area may take a minor in physical education. This consists of 16 hours, including 501, and 503. For students who have not had adequate courses in tests and measurements and in principles of physical education, 400 and 406 are also required.

### *Doctor of Philosophy Degree*

One may pursue a program of study leading to a Doctor of Philosophy degree in education through the functional area of curriculum and instruction.

The department qualifications for admission to advanced graduate study are:

1. Fulfillment of the requirements of the Graduate School and the College of Education.
2. Presentation of professional course work equivalent to the University's undergraduate and master's programs in physical education.

A student may be permitted to start advanced graduate work while making up deficiencies.

Three years of full-time graduate study after obtaining a bachelor's degree or two years of full-time graduate study after a master's degree (or its equivalent) constitute the minimum requirement for the doctorate. The student and his adviser will determine a pattern of course work to equip the student in physical education and its allied fields, foundations of education, cultural courses outside the area of education, and for independent research.

The program of studies beyond the master's degree must include a minimum of 96 hours of approved graduate courses, including a required core of 12 hours, of which 60 hours must be in courses on the 500 level or above. Of these, 36 hours must be in Dissertation 600. Any dissertation credit beyond 36 hours may not be included as part of the 96-hour requirement. Additional work beyond the 96 hours may be required to insure professional competence and broad cultural knowledge.

Competence in research tools as required by the Graduate School must be demonstrated.

The procedure for beginning a program of study leading to a Doctor of Philosophy degree is as follows:

1. Submit an application for admission, with transcript or transcripts, to the Graduate School.
2. Apply for admission to the Department of Physical Education as well as to the appropriate functional area.
3. If admitted, the coordinator of the functional area will arrange for proper counseling and programming in the field of specialization.

### **Physics**

Graduate work in physics may be taken as a major or minor leading to



the Master of Arts or Master of Science degree, or as part of a physical sciences program toward the Master of Science in Education degree. Both experimental and theoretical research can be undertaken in the fields of molecular, solid state, and nuclear physics. Some of the specific areas included are nuclear spectroscopy, gaseous ion molecule reactions, ultrasonics, oxides as semiconductors, magnetic resonance, laser optics, dielectrics, and surface physics. Computer facilities are available for research data analyses including an IBM 7040.

Each candidate for the master's degree in physics must take 511 (or mathematics equivalent), 510a,b, and 530. He must demonstrate a reading knowledge of French, German, or Russian. He must either write a thesis or take 9 additional hours of course work in physics at the 500 level, in lieu of the thesis.

### **Physiology**

Graduate courses in physiology may be taken leading to the Master of Arts, Master of Science, and Doctor of Philosophy degrees. Graduate courses in physiology also may contribute to a major in biological sciences toward the Master of Science degree, and to one in biological sciences in education toward the Master of Science in Education degree.

All graduate students must take the Graduate Record Examination and submit scores to the department before admission or during the first term.

The graduate prerequisites at the master's level include the equivalent of an undergraduate major in biological sciences plus inorganic, analytic, and organic chemistry and a minimum of one full year each of physics and mathematics. Qualified students are also encouraged if they have had training in chemistry, physics, mathematics, psychology, or engineering.

For a master's degree in physiology, a student must ordinarily work two years, demonstrate competence in one foreign language, and present an acceptable thesis based upon original investigation. Equivalent work completed elsewhere can be accepted in part. The language is waived for the M.S. degree, and the thesis is waived for the M.S. in Education.

Courses should be elected from other departments such that a major of about 32 hours and a minor of about 16 hours are attained. Because of the importance of biochemical and biophysical knowledge to physiology, students are urged to select their minors in those areas. Other biological sciences may also be acceptable, after consultation with the chairman of the department.

Training is provided in cellular, comparative, and mammalian physiology. Because of this trichotomy, entering students are urged first to obtain a basic knowledge of the whole field and then to specialize in one of the three areas after being advised by the chairman of the department or departmental graduate adviser. Training is also available in human anatomy, electron microscopy, and biophysics.

Students entering the doctoral program should ordinarily have at least the same prerequisites as those entering a master's program, except that courses in calculus and physical chemistry are highly recommended. Students with prior major concentrations in chemistry, physics, or engineering, but little training in biological sciences, are equally eligible for admission to the program.

A competence in one foreign language plus a year of statistics, plus

a written qualifying examination are necessary for admission to doctoral candidacy. In addition, if they or their equivalents have not previously been taken, biochemistry and physical chemistry are necessary before admission to candidacy. In special circumstances, depending upon the specific goals of the candidate, physical chemistry may be waived.

The total program must be provisionally formulated upon entrance, and evaluated periodically thereafter, in consultation with the chairman of the department or the major adviser.

Three years of full-time graduate study after obtaining the bachelor's degree, or two years after the master's degree (or its equivalent) usually constitute the minimum requirements for the doctorate. A dissertation is required and also a final oral examination.

### **Plant Industries**

The Master of Science degree can be earned in the Department of Plant Industries in the general fields of soils, field crops, and horticulture. Graduate courses in plant industries may also be taken for a Master of Science degree minor.

It is customary to require supporting courses in botany, microbiology, chemistry, statistics, and other areas deemed essential for an intelligent approach to a problem in the student's chosen field and to prepare him adequately for acceptance for the Doctor of Philosophy degree if he has that potential. Once the general field has been selected, the research and thesis may be completed in any one of the many divisions of that field: In horticulture, for example, the research and thesis may be in olericulture, pomology, small-fruits culture, or turf management; in soils, the problem may relate to fertility, soil physics, soil microbiology, soil chemistry, or soil and water conservation; in field crops, the problem may be directed toward crop production and management, weeds and pest control, and other supplementary areas. Often a problem can combine study in two of these more restricted divisions.

Important research facilities are available in the department and through three cooperative experimental farms. Within the Department of Plant Industries there are adequate greenhouse facilities adjacent to the agriculture building for experimental work. In addition, approximately eighty-three miles north of Carbondale the department operates the Southwestern Farms as an agronomy research center. The cooperative units include, the Illinois Horticulture Experiment Station, and the Agronomy Research Center which are operated cooperatively with the University of Illinois; and the Small Fruits Research Station which is operated cooperatively with the United States Department of Agriculture, Agriculture Research Service, Crops Research Division.

The purpose of the Horticulture Experiment Station is to provide facilities for research and demonstration with fruit, vegetable, and ornamental crops. The station's land area includes a twenty-eight-acre south unit, a fifty-five-acre west unit, and approximately twenty-five acres for vegetable research. The station headquarters, located on the west unit, includes a combination research-laboratory storage building, a machinery shed, a sash-type greenhouse, a plastic greenhouse, and a propagation cellar. A pond of one and one-half acres provides water for spraying and irrigating. Specific projects undertaken include the testing, breeding, and developing of fruit, vegetable, and ornamental varieties adapted to southern Illinois; studying fundamental problems related to cultural methods



and to root-stock-variety combinations; and providing demonstrational areas for students and growers.

The purpose of the Agronomy Research Center is to provide facilities for soils and crops research and demonstrations. The station includes approximately one hundred acres of land at two locations. Projects are conducted on a cooperative basis by personnel of the University of Illinois and Southern Illinois University, or independently by personnel of either institution. Studies are conducted to develop acceptable varieties of field and forage crops, emphasizing their adaptability to southern Illinois; and to seek answers to fundamental problems in the management of soils and the culture of crops. Demonstrations are developed for observation by students and other interested persons.

The purpose of the Small Fruits Research Station is to provide facilities for research investigations on breeding, production, and disease control of strawberries, blueberries, brambles, and other small fruits. The station includes ninety acres of suitable land supplemented by an irrigation pond and a station service center with a shop, machine storage, and field laboratory located on immediately adjacent acreage. The pond has a capacity of approximately fifteen million gallons. The Federal Government has constructed several greenhouses with headhouses in connection with this station.

The purpose of the Southwestern Farms Experiment Station is similar to that of the Agronomy Research Center with respect to soils and demonstration but includes forestry research and demonstration as well. There are approximately 183 acres in this farm, located south of Scott Air Base near Belleville, and the land is approximately evenly divided between soils and crops research and demonstration in plant industries and similar use in forestry.

Because of the diversity of areas of interest in the Department of Plant Industries, no general curriculum is applicable for all graduate students. Each graduate student's background is studied carefully by a committee chosen for his specific area of interest, and his approval for admission to study in the department is made upon the condition that weaknesses in his background be satisfied. When the student is on campus he is invited to attend the committee's discussion so that he understands fully why every requirement is made.

The Department of Plant Industries requires for approval to do graduate work that a student have not less than a 3.50 grade point average in the last 50% of his work, which must include 20 hours in his major undergraduate field. The undergraduate major may be in any area, but the undergraduate area has much to do with the preparatory courses required by his advisory committee.

An oral examination over all graduate work and the submission of a thesis are required.

For additional information concerning programs and assistantships write to the chairman, Department of Plant Industries, Southern Illinois University, Carbondale, Illinois 62901.

### **Psychology**

The Department of Psychology offers graduate work leading to the Master of Arts, Master of Science, and Doctor of Philosophy degrees. The primary emphasis is on doctoral training, for which the master's degree



is a prerequisite. All students are admitted as Doctor of Philosophy degree applicants on the assumption that they will complete the doctoral program. The minimum number of graduate hours required for the Doctor of Philosophy degree is 144. At least 24 of these are dissertation hours. The master's program requires two years of full-time residence and a thesis.

Doctoral programs are offered in general experimental psychology and in the professional areas of clinical, counseling, and industrial psychology. The general experimental program embraces the research areas of learning, motivation, sensation, perception, psychophysics, social, child, and personality.

In addition to approved programs of study, doctoral students in the clinical, counseling, and industrial areas must complete the equivalent of a full-time academic year of internship in an agency approved by the department. Doctoral students in general experimental psychology have an equivalent period of experience in teaching or research.

Minor programs may be worked out in all areas in which specialization is offered, provided that the candidate presents suitable preparation for the level of work to be undertaken.

Separate application forms for both the Department of Psychology and the Graduate School must be filled out. No student will be accepted for graduate work in the department without prior application to, and approval by, the departmental admissions committee as well as the Graduate Admissions Office. Departmental application forms concerning fellowships and assistantships may be obtained from the chairman, Department of Psychology. Application forms may be obtained from the Graduate School.

It is apparent that psychologists are faced with demands to deal with an ever-increasing range of problems, basic as well as applied. As a consequence, the goal of graduate study at Southern Illinois University is to develop psychologists who will have a broad perspective and scientific sophistication, as well as the requisite skills to advance the field of psychology and meet changing needs. To accomplish this aim, a program composed of four integral parts has been developed: the core curriculum, specialization, research and practicum opportunities, and training assignments.

### *Core Curriculum*

The core curriculum is designed to give systematic work in both the theoretical and substantive material of general psychology (501-12), in quantitative methods (Mathematics 410-8), and in research design (522). This curriculum is considered basic to all areas of specialization and is required of all students in their first year of graduate training.

### *Areas of Specialization*

#### GENERAL EXPERIMENTAL PSYCHOLOGY

The general experimental program is planned for the student who wishes to have a broad academic course of advanced study in psychology. It is primarily intended for students working towards careers in teaching and research. While considerable flexibility is permitted so that the student may select courses from several areas, he is expected to concentrate in at least one area, e.g., learning, sensory processes, social, child, etc. Re-

quired courses: 409 and 509. In addition, the student is required to take research credit 591 or its equivalent during all but the first quarter of residence.

#### CLINICAL PSYCHOLOGY

The clinical program, approved by the Education and Training Board of the American Psychological Association, provides training such that the student may prepare for a career in clinical activities, research, or teaching. The student is expected to become competent in clinical skills and to be able to evaluate critically the techniques which are currently available. To aid in this preparation and to encourage a research orientation generally, each clinical major is required to take 595 during all but the first quarter of residence. Additional requirements are as follows: 523, 531, 593e, 541, 543-6, 537, and 598. In order to complete his major, the student must take a minimum of 41 hours of clinical courses exclusive of the 595.

#### COUNSELING PSYCHOLOGY

The counseling program, approved by the Education and Training Board of the American Psychological Association, is designed to prepare the student for a variety of careers in counseling. As an integrated specialty area of the clinical program, the extent of specialization depends largely on the particular interests of the student. Required courses: 523, 530, 421, 536, 547, 593f, and 598. In addition, the following electives are strongly recommended: part or all of the diagnostic sequence (541, 543), 538, 431, and measurement courses and work from other disciplines.

#### INDUSTRIAL PSYCHOLOGY

The industrial program is designed to prepare students for a wide range of research activities in the industrial area. It includes 593h, and other courses selected in conference with the adviser.

#### *Research and Practicum*

Because of our commitment to the importance of broadening the scientific base of psychology and to the development of skills in the application or teaching of psychological principles, a variety of research and practicum experiences is considered an integral part of the student's training. Therefore, with the exception of the first quarter, the student is expected to participate in research or practicum each quarter of residence.

Research may be of the student's own design or may be in conjunction with various studies being conducted by staff members. Research competence in original individual research is required of all students.

#### *Training Assignments*

As a vital part of our graduate training program, each student must be engaged in a training assignment each term. These assignments vary according to the needs and professional aspirations of the student. They are designed to supplement the formal course work by a variety of pre-professional activities such as assisting in research and teaching under staff supervision. The training assignment increases in responsibility as the student progresses. The amount of time required of the student varies from 10 to 20 hours a week, depending upon his level of progress, the type of assignment, etc. The purpose of these assignments is to expose



the student to some of the types of activities that he will ultimately be engaged in after he receives his degree.

### **Recreation and Outdoor Education**

The Department of Recreation and Outdoor Education offers courses of study leading to the Master of Science in Education degree. The curricula are based on the philosophy that in modern times recreation education must assume the burden of preparing students to live in a leisure-oriented society. The course of study draws upon sixteen departments of the University. Recreation and outdoor education is an interdisciplinary program with four areas of specialization.

1. School and Community Recreation. The school and community recreation team is a large one. It includes the municipal and the county agencies, the churches, the school system, and all the private and voluntary recreation agencies.

2. Recreation for Special Populations. Mental hospitals, nursing homes, schools for retarded, prisons, and other institutions are becoming more aware of the important place that recreation plays in the education, habilitation, and rehabilitation of the ill and handicapped, emotionally disturbed, juvenile delinquents, and law offenders.

3. Outdoor Recreation Management. There is an increasing need for more professional personnel who can assume positions of responsibility and leadership in outdoor recreation establishments and agencies. College graduates with a background in biological sciences and prepared in recreation management have greatly expanded employment opportunities.

4. Outdoor Education. Increased emphasis on outdoor education in the form of outdoor education centers, school forests, and school farms together with the increased concern for after-class activities have created greater demands for qualified leaders in this field.

All students admitted to the master's program are expected to complete the core-curriculum requirements of 20 hours selected from Recreation 450, 510, 520, 530, 540, Educational Administration 500, and Sociology 487a. Students then decide on their area of specialization and are assigned to an adviser. A thesis is required.

Supervised field experience, practicums, and internships are offered to help future leaders put theory into practice under the guidance of experienced professionals.

### **Rehabilitation**

#### *Rehabilitation Counseling*

##### **GENERAL**

A two-year graduate program leading to either the Master of Arts or Master of Science degree. Each degree requires a minimum of 72 quarter hours plus a three-month internship, the difference being that the Master of Arts requires a formal thesis and oral exam while the Master of Science requires a research paper in place of the thesis.

Required courses include statistics, methodology, counseling, medical information, and extensive practicum and field work experiences in a variety of rehabilitation settings.



There is considerable flexibility in the curriculum so that special interests or needs of students can be pursued by careful selection of electives. Some suggested electives include personality dynamics, social psychology, community development, crime and corrections, group processes, educational psychology, and processes in social work.

The program in rehabilitation counseling is supported in part by the Vocational Rehabilitation Administration and is designed to train rehabilitation counselors for state, federal, and other rehabilitation settings.

#### MENTAL RETARDATION

Within the rehabilitation counseling framework an emphasis may be pursued in mental retardation. This emphasis features modifications from the general program which stress academic and practicum experience with the retarded. In addition to gaining an understanding of the psychological, psycho-social, and physical origins of human behavior and their relevance to rehabilitation, the student receives a basic and thorough understanding of mental retardation and its related problems. Practicum and internship experience provides for the development of competence in the procedures and techniques utilized in habilitation. These skills include primarily adjustment and vocational counseling as well as methods of vocational appraisal and placement. The curriculum provides sufficient background to render the graduate capable of functioning in a variety of settings serving the adjustment and vocational needs of the retarded.

#### *Rehabilitation Administration*

The program in rehabilitation administration is designed for the rehabilitation worker who already has a wide range of experience in rehabilitation settings but lacks the formal training often necessary to assume positions of greater responsibility. While the curriculum includes many of the areas in the rehabilitation counselor training program there is generally less emphasis on counseling skills and testing.

This program requires a minimum of 48 quarter hours, which can be completed in one calendar year. An internship may be required depending on individual background.

#### *Behavior Modification*

The program in behavior modification is intended to provide training for students interested in the application and development of techniques useful in the practical application of the behavioral sciences to human and social problems. Two years of graduate work may lead to either the Master of Arts or the Master of Science degree. A minimum of 72 hours is required for either degree. A one quarter full-time internship at an approved, affiliated training center is also required.

The emphasis of the program is applied. Within this framework the student in consultation with his adviser may elect to specialize in a particular age group, type of setting, or behavioral area. A number of elective courses in other departments are available according to the specialized needs of individual students. A laboratory for the study of human behavior is located in the Rehabilitation Institute and in the University School. Additional facilities exist at the Anna State Hospital and the A. L. Bowen Children's Center.

A student may expect to take courses in the following areas: scientific methods, the functional analysis of behavior, complex human behavior,

measurement in behavior change, the structural basis of behavior, and child behavior.

Students wishing to apply for admission to the behavior modification program should write to the Rehabilitation Institute for application forms. Information regarding fellowships and assistantships may also be obtained from the Institute.

### **Secondary Education**

One may work in this department toward the Master of Science in Education degree and toward the Sixth-Year Specialist's Certificate. In addition, the department offers courses that are applicable to most of the functional areas of the Doctor of Philosophy degree program in education.

A program consisting of 48 hours of work for the master's degree will be arranged jointly by the Department of Secondary Education and the subject-matter-area department in which the student plans to teach. A student's undergraduate record, experience, and future plans will be taken into account in determining the number of courses in secondary education and subject matter to be taken. Supportive courses will be found for those individuals who plan to work in junior colleges or other high school or post-high-school situations.

The work leading to the Sixth-Year Specialist's certificate is arranged in terms of the needs and future plans of the student. Many of the same procedures used in selecting courses at the master's level are also applied in this program.

Secondary education participates in the doctoral program in education in the functional area of curriculum and instruction. Students interested in secondary education may pursue an equivalent of a major concentration within the area program. For additional information on the Ph.D. in education, see the preceding section entitled Education. Inquiries should be addressed to the coordinator for the area of curriculum and instruction in the College of Education.

### **Secretarial and Business Education**

Graduate courses in business teacher education may be taken as a major or minor in the Department of Secretarial and Business Education leading to the Master of Science in Education degree. The program in business teacher education consists of a minimum of 48 hours of course work distributed as follows: (1) 18–24 hours in business teacher education courses; (2) 12–18 hours in other School of Business courses; (3) 12–18 hours in College of Education courses; and (4) 0–12 hours of approved electives.

The graduate program is planned for those students who have an adequate subject-matter and professional-education background in at least one of the following business teaching areas: (1) secretarial, (2) general business, (3) bookkeeping and accounting, or (4) distributive education. Deficiencies in background must be eliminated by taking appropriate courses.

The graduate program is aimed at upgrading and making more proficient those individuals who have already met or surpassed the minimum requirements for teaching business subjects in the high schools of



Illinois. The dual purpose of the program is to provide advanced professional education in business teaching fields and to develop competence in utilizing research findings in the field. In keeping with the general requirements of the Graduate School, each student is required to write a research paper. Those who have special interest and ability in research or who expect to go on to advanced graduate study are encouraged to write a thesis.

Graduate courses in business teacher education also may be taken as a part of a graduate program in the Department of Secondary Education leading to the Master of Science in Education degree.

### **Sociology**

The Department of Sociology offers programs of graduate study leading to the Master of Arts and Doctor of Philosophy degrees. Several areas for major or minor specialization are provided for advanced work beyond the general master's program. These areas are: social disorganization, deviance, and control; social organization, with particular reference to complex organization and the community; social psychology; the sociology of the family; sociological theory. In addition, a special program in sociology and corrections, leading to the master's degree in sociology, is offered in cooperation with the Center for the Study of Crime, Delinquency, and Corrections.

Close ties are also maintained with the Community Development Institute, the Public Affairs Research Bureau, Clinical Services, and the Computer Center which may offer special opportunities for graduate student training and research.

Applicants for admission to graduate study in sociology should apply in writing to the chairman of the department. Detailed statements of departmental requirements for the Master of Arts and the Doctor of Philosophy degrees are available upon request.

### **Special Education**

Several programs leading to a Master of Science in Education degree are offered by the Department of Special Education: First, courses which lead to certification as a teacher of exceptional children may be included in the master's degree program. This training is specifically designed for individuals who have had successful teaching experience in regular classrooms and who wish to qualify as teachers of mentally retarded, emotionally disturbed, or acoustically handicapped children.

For persons holding certification in some area of teaching exceptional children, a program designed to meet the requirements for special education administrative positions is offered. This is a program which is flexible enough to meet the needs of persons with a background in any one of a variety of special education areas.

A Sixth-Year Specialist's certificate program in special education with emphasis on one or more areas, including special education supervision, is available.

Finally, building on the core requirements of the functional area of Educational Psychology, a Doctor of Philosophy degree in education with an emphasis in special education is offered. This program has its base in the requirements indicated in the functional area of educational



psychology. Specific course requirements for the emphasis in special education include extensive seminar experiences in the study of all types of exceptional children.

A number of graduate fellowships under Public Law 85-926 (as amended by Public Law 88-164) are available to qualified persons seeking careers in special education through study in this department.

### Speech

Courses are offered in speech leading to the Master of Arts, Master of Science, and Doctor of Philosophy degrees. The Master of Arts and the Master of Science degrees are offered with specialization in public address, interpretation, and general speech. Courses in speech may be taken as a part of the program leading to the Master of Science in Education degree.

The student should submit the equivalent of an undergraduate major in speech in order to be admitted unconditionally as a full-time graduate student for the master's degree.

The program of course work leading to the master's degree includes areas and techniques of research and a seminar in the area of emphasis. A total of 48 hours is required for the degree. Competence in one foreign language is required for the Master of Arts degree.

The research requirement for the master's degree may be met by either of the following plans:

#### *Plan 1*

1. Submit a thesis demonstrating ability to do research on a topic approved by the graduate committee of the Department of Speech.
2. Take a minimum of 39 hours of course work.
3. Pass an oral examination over the thesis and course work.

#### *Plan 2*

1. Submit a research paper as evidence of a knowledge of formal research techniques, a copy of which will be submitted to the Graduate School for its permanent records.
2. Take a minimum of 48 hours of course work.
3. Take a comprehensive written examination over the course work taken for the degree.

The student will be given a choice as to which of the above plans he wishes to take; however, the graduate committee of the Department of Speech will make the final determination as to which requirement the student must meet.

The Doctor of Philosophy degree with majors in rhetoric and public address, general speech, and theater is offered by the department. Emphasis at the doctoral level is on competency in the area of specialization and in research. The research program is designed to provide the student with a knowledge of the processes and techniques involved in advancing basic understandings in the various areas of speech: experimental, descriptive, historical, and critical.

The major in rhetoric and public address is designed to acquaint the student with the materials and methods in areas of history and criticism of speech. Specialized courses involve studies in British and American public address; classical, medieval, renaissance, and modern rhetorical

theory; seminars in discussion, persuasion, and rhetoric and public address. The program of each student is designed to meet particular needs in terms of the background of previous work.

The major in problems in oral communication (general speech) involves a more general program. The student takes a minimum of 15 hours including a seminar from each of three of four areas: general speech and speech education, oral interpretation, rhetoric and public address, and theater. This program is designed to meet the needs of students interested in the various areas of the field of speech.

The major in theater is based upon specialized work in theory of drama and the theater, theater history, and dramatic production in which a minimum of 24 hours must be taken, and in more general courses from rhetoric and public address, interpretation, general speech, and speech education from which a minimum of 24 hours must be included.

Candidates for the Doctor of Philosophy degree must demonstrate competence in two foreign languages, or one foreign language and another research tool such as statistics if suggested by the department.

### **Speech Pathology and Audiology**

The Department of Speech Pathology and Audiology has as its objective the training of personnel for communication science research, for college and university teaching, and for the diagnosis and treatment of persons with speech and hearing impairments. Course work leads to certification as a speech pathologist or audiologist in public schools and rehabilitation centers by meeting certification requirements of the American Speech and Hearing Association. Its program in clinical training is approved and registered with the Education and Training Board of the American Board of Examiners in Speech Pathology.

Professional experiences for graduate students are provided in the following settings: the University's Clinical Center; a summer residential camping program for persons with organic speech problems, in cooperation with the University of Illinois Division of Services for Crippled Children; the V.A. Hospital in Marion; A. L. Bowen Center for Retarded Children; and the Anna State Hospital. Cooperative programming is maintained with other public and private agencies such as the Division of Vocational Rehabilitation, the Easter Seal Society, and the National Association of Speech and Hearing Agencies. Students participate in traveling speech and hearing clinics which serve schools and communities through the media of surveys, diagnostic examinations, and therapy. The department has available R.S.A. traineeships, Office of Education fellowships, N.D.E.A. fellowships for support of graduate education in addition to graduate and research assistantships. Students can also apply for the special doctoral assistantships and graduate fellowships available from the Graduate School through the department.

Specialized experiences with orthodontists, prosthodontists, plastic surgeons, otologists, and others of the medical and dental professions are available in the St. Louis and Chicago areas. Emphasis is on the interdisciplinary relationships with other professions throughout the training process.

The department maintains active research facilities which provide laboratories and specialized equipment for the study of both the normal and impaired functions of the speech and hearing processes and their



relationship to language formulation. The speech science laboratory is equipped for electromyographic study of the speech musculature, radio telemetry, electrophysiology of hearing, and spectrographic analysis of speech signals. The experimental audiology laboratory, which includes an anechoic chamber, is equipped for investigation in air and bone conduction sensitivity, localization, and speech discrimination. It also has facilities for automatic audiometry, PGSR, middle ear impedance, and aural reflex experimentation. Facilities are also available for the use of palmar sweat measurements as a physiological index of emotion, for the study of pathoanatomy and pathophysiology of cleft lip and cleft palate through roentgenocephalometrics and cinefluoroscopy, and for the experimental analysis of behavior and behavior modification.

Graduate courses in the Department of Speech Pathology and Audiology may be taken for a major leading to the Master of Arts, Master of Science, and Doctor of Philosophy degrees. Requirements for the various degrees are determined through advisement commensurate with professional growth of the student.

### **Technical and Industrial Education**

A program leading to the Master of Science in Education degree is available in the School of Technology for persons seeking advanced work in the teaching of industrial, vocational, and technical subjects. The programs of study in the area of technological and industrial education are designed to provide professional preparation, instructional competencies, facilities, and opportunities for advanced study in one of the areas of industrial arts teaching, vocational teaching, or technical teaching.

A program of study for industrial arts teaching prepares persons for teaching industrial arts in the elementary grades, junior high, senior high, college, and university programs. Advanced professional and technical courses are available for specialization in teaching.

Students of advanced academic standing are provided with professional preparation in trade and industrial subjects enabling them to become qualified teachers, coordinators, supervisors, directors, and administrators in vocational-industrial programs. Advanced study is oriented toward principles and philosophy, organization, and administration and supervision of trade and industrial programs.

Advanced students who have acquired scientific and technical backgrounds may pursue a specialized curriculum enabling them to qualify for positions as teachers in technical programs. The curriculum includes pedagogical preparation in combination with advanced study in technological areas related to industry, engineering, and science.

Individual programs of study are developed for each student by an adviser and advisory committee. The exact nature of the program will depend upon the student's deficiencies, needs, interests, and goals. While a certain amount of flexibility is permitted so that courses may be taken in other areas, the student is expected to concentrate or specialize in a major area by accumulating no less than 30 quarter hours of credit in an approved specialization in addition to meeting the requirements for teacher certification. The general requirements for the Master of Science degree or the Master of Science in Education degree are consistent with the requirements outlined in this catalog with a minimum of 48 hours of graduate credit required.



Students wishing to pursue a major in one of the technological areas should apply to the Graduate School office in accordance with university policy established for the admission of graduate students. Acceptance in a degree program is made by the School of Technology. The student and his adviser will nominate a committee to advise the student on his program of study. Programs of study must be approved by the student's advisory committee. Teaching and research assistantships are available for qualified applicants. Additional information about the courses of study, teaching and research assistantships, or fellowships may be obtained from the School of Technology.

### **Theater**

The Department of Theater offers courses leading to the Master of Arts and Master of Science degrees and to the Doctor of Philosophy degree in speech with a theater specialization. It also offers a specialization as part of the Master of Science in Education degree in secondary education.

Candidates for master's degrees must complete 48 hours of graduate credit; the Master of Arts candidate must demonstrate competence in a foreign language. Each candidate for the master's degree will produce a thesis or its equivalent (creative work in play direction, costume or scene design, playwriting, etc.). The chairman appoints a director for each candidate's program. The Doctor of Philosophy degree program in speech with a specialization in theater is open to students holding a master's degree. Doctor of Philosophy degree candidates are required (1) to complete a minimum of 48 hours in theater and speech; and (2) to complete a theater dissertation. Qualified candidates may offer a creative equivalent in producing, playwriting, design, etc., under the supervision of an advisory committee. Candidates for the Doctor of Philosophy degree with a major concentration in theater must demonstrate competence in two foreign languages, or one foreign language and another research tool such as statistics if advisable, and must satisfy the theater graduate staff that he is qualified for candidacy by passing a comprehensive preliminary examination. Graduate courses in theater may also be taken as a minor leading to the Doctor of Philosophy degree in speech.

Candidates for the Doctor of Philosophy degree who have a special interest in dramatic literature may earn the degree by substituting dramatic literature courses as offered in the Department of English for theater courses.

An undergraduate major in theater is not essential for admission to candidacy for a graduate degree. A student with an undergraduate major in speech or English, for instance, may audit undergraduate courses in theater to make up any deficiencies.

Graduate students are urged to supplement their class work with practical experiences in acting and production: membership in the Southern Players is open to graduate students, and they may also earn graduate credit as members of the Southern Touring Company and the Summer Stock Company.

### **Zoology**

Graduate work in zoology may be taken as a major or a minor toward the Master of Arts, Master of Science, and Doctor of Philosophy degrees

and as a part of a program in biological sciences toward the Master of Science and the Master of Science in Education degrees.

Candidates for the Master of Science and Master of Arts degrees must have the consent of the department and at least 35 hours of undergraduate credit in zoology equivalent to 102, 103, 202, 300, 310, and 401. Further required undergraduate work includes introductory college chemistry with laboratory (equivalent to Chemistry 121a,b) and one year of college mathematics including algebra and trigonometry (equivalent to Mathematics 111). Deficiencies in undergraduate preparation may be removed concurrently with graduate work.

Completion of work for the Master of Arts degree requires, in addition to the general requirements of the Graduate School, a reading knowledge of one foreign language, calculus (equivalent to Mathematics 150), an approved thesis, Zoology 581, and continuous registration in Zoology 582, or, in the instance of approved conflict, registration for the seminar in another biological science department. A minor outside the department is required.

The requirements for completion of the Master of Science degree are the same as for the Master of Arts with the following exceptions: (1) a reading knowledge of a foreign language is not required; (2) a research paper may be offered in lieu of a thesis; (3) introductory statistics (equivalent to Guidance 422b), rather than calculus, is required; and (4) the student must complete 54 quarter hours of formal courses, including 36 in zoology.

In addition to the above requirements for the Master of Arts degree (except for Zoology 581), the Doctor of Philosophy degree requires organic chemistry, animal physiology, experience in marine invertebrate natural history, demonstrated proficiency in statistics or in a second foreign language, and other requirements that may be set by the student's advisory committee. Successful performance on a preliminary examination and a dissertation are required.

Areas of specialization possible within zoology include developmental biology, invertebrate zoology, systematics, wildlife management, ornithology, genetics, fish management, cytochemistry, ecology, parasitology, entomology, limnology, herpetology, vertebrate morphology, mammalogy, vertebrate paleontology, and animal behavior.





# 3 / Course Descriptions

Here are described all of the courses offered by the University on the Carbondale campus for graduate credit. Courses are listed numerically within each subject-matter area. Areas are listed below in the order of their appearance on the following pages.

Accounting	French	Music
Agricultural Industries	German	Philosophy
Animal Industries	Russian	Physical Education
Anthropology	Spanish	Physics
Applied Science	Forestry	Physiology
Art	Geography	Plant Industries
Botany	Geology	Psychology
Business Administration	Government	Recreation and Outdoor Education
Chemistry	Guidance and Educational Psychology	Rehabilitation
Clothing and Textiles	Health Education	Secondary Education
Design	Higher Education	Secretarial and Business Education
Economics	History	Sociology
Educational Administration and Foundations	Home and Family Education	Special Education
Elementary Education	Home Economics Education	Speech
Engineering	Instructional Materials	Speech Pathology and Audiology
Engineering Technology	Journalism	Technical and Industrial Education
English	Management	Theater
Finance	Marketing	Zoology
Food and Nutrition	Mathematics	
Foreign Languages	Microbiology	

The first entry for each course is a three-digit numeral which serves to identify the course. Courses numbered 400–499 are open to both seniors and graduate students. Courses numbered above 499 are for graduate students only.

Following the course identification number is another number, which indicates the maximum credit allowed for the course. The maximum may vary, and specific quarter hours may be assigned for each quarter a course is given.

Following the course description there may be prerequisites which must be satisfied before a student is permitted to enroll.

To learn in which quarter a course is offered, the student should consult the Schedule of Classes published for both campuses by Central Publications, Southern Illinois University, Carbondale, Illinois 62901.

## Accounting

**410–4 Accounting Concepts.** Interpretation and critical analysis of reports, statements, and other accounting data from the viewpoint of users of financial information. Restricted to Master of Business Administration students.

**415–4 Electronic Data Processing in Business.** An introduction to computers and their uses in business applications; computer components, programming, and analysis of business systems; exploration of effects of computers upon business organization and society. Prerequisite: 251c.

**442–4 Advanced Cost Accounting.** Managerial control and profit planning

through capital budgeting, inventory planning, subject probabilities, statistical methods, and operations research; direct and relevant costing; nonmanufacturing costs; differential and comparative cost analysis. Prerequisite: 341.

**453-4 Advanced Accounting.** Advanced study of accounting principles and procedures relating to specialized topics, including partnership equity, installment and consignment sales, insurance, compound interest, and preparation and use of consolidated statements. Prerequisite: 351b.

**456-4 Auditing.** Objectives, standards, and procedures involved in examining and reporting on financial statements of business organizations. Prerequisite: 341 and 351b.

**458-4 Accounting Systems.** Problems in accounting systems design and installation. Examination of existing systems and practice in system design and reports. Prerequisites: 331, 341, 351b.

**459-4 Internship in Accounting.** Supervised work experience in professional accounting. Prerequisite: consent of department.

**461-4 C.P.A. and Advanced Accounting Problems.** A course using problems from the American Institute of Certified Public Accountants' examinations given in recent years and supplementary problems from selected sources. Prerequisite: 341 and 351b.

**475-4 Budgeting and Systems.** Study of concepts, methods, and tools used in the design of management information systems. Budget program is developed to identify problems in coordinating and controlling business activities. Prerequisite: 261, Finance 320.

### **Agricultural Industries**

**410-2 to 4 Problems in Agricultural Services.** Discussion, assignments, and special workshops on problems related to inservice training programs in the agriculturally related fields. Development of more effective programs in working with farm people. Prerequisite: graduate student in agricultural services or consent of instructor.

**411-3 Agricultural Extension.** A study of the history, organization, objectives, programs, and methods of agricultural extension work. Prerequisites: Journalism 393 and a course in psychology or sociology or consent of instructor.

**412-4 Principles of Agricultural Mechanization.** Theory and use of remote controls, electric motors, survey kits, and other devices adaptable to the needs and interests of educators involved in agricultural mechanization laboratories.

**417-4 Agricultural Development in Emerging Countries.** Principles and practices in improving agriculture in areas with limited capital and low levels of technology. Special emphasis on developments in Asia, Africa, and South America. Prerequisites: GSB 211-9 and consent of chairman.

**450-4 Advanced Farm Management.** Methods of analyzing farm enterprises, comparing farm enterprises, comparing farm businesses, allocating farm resources, combinations of enterprises, and production factors. Field trips. Prerequisite: 350.

**456-11 (3,2,2,2,2) Agricultural Marketing Problems and Practices.** (a) Cooperatives. Development of the agricultural cooperative movement, agricultural cooperative organization, legal requirements, principles and practices of agricultural cooperative associations. (b) Livestock. Problems and their solutions in marketing livestock. (c) Field Crops. Problems and their solutions in marketing field crops. (d) Dairy and Poultry. Problems and their solutions in marketing dairy and poultry products. (e) Horticultural Crops. Problems and their solutions in marketing horticultural crops. Field trip cost \$5. Prerequisites: 354, GSB 211a, or consent of instructor.

**471-4 Land Resource Economics.** (Same as Forestry 471 and Economics 471.) The use of land as an economic variable in production of goods and services; land markets; group versus individual conflicts; elementary land resources planning techniques. Field trips cost about \$5. Prerequisite: GSB 211, Economic 215, or Forestry 215, or Forestry 470.

**473-4 Advanced Farm Power.** Farm power theory and its application, for training teachers to diagnose and correct difficulties in engine, power transmission, and hydrostatic systems. Prerequisite: 373 or equivalent.

**478-4 Advanced Farm Machinery.** Materials on construction; basic mechanics involved in tillage machinery; rotary power transmission; product cleaning,



drying, and sorting; costs of operation; materials handling. Prerequisites: 350, 373, and 374, or consent of instructor.

**485-3 Principles and Philosophies of Vocational and Technical Education.** (See Technical and Industrial Education 485.)

**505-3 Agricultural Economics Research Methods.** Agricultural economics research methods with particular reference to types of research problems encountered, sources of data, problems in developing new data and methods of analysis. Prerequisite: consent of chairman.

**512-3 to 6 Agricultural Occupation Internship.** Prepares coordinators to fulfill their responsibilities in selected areas of agricultural related occupations through an internship in the area of specialization and through orientation to related technical information. Prerequisite: 312b or consent of chairman.

**520-1 to 6 Readings.** Contemporary books and periodicals on selected areas of the field.

**520b-1 to 6 Readings in Resource Economics.** (Same as Forestry 520b and Economics 502.) Directed reading in the field of natural resource economics.

**525-3 Interrelated Vocational Cooperative Education.** (See Technical and Industrial Education 525.)

**550-4 Production Management.** A study of the principles of production economics upon which problems in agricultural production and resource use can be analyzed. Emphasis on principles applicable to the farm business and to farm policy, including concepts relating to the decision-making process and farm planning under perfect and imperfect knowledge and with limited resources. Prerequisites: 12 hours equivalent in economics, agricultural economics, and consent of instructor.

**552-2 Advanced Agricultural Prices.** Continuation of analysis of factors affecting agricultural prices; the application of these factors in price prediction. Prerequisite: 352.

**554-4 Advanced Agricultural Marketing.** Current complex problems in agricultural marketing and methods of developing solutions; cooperative activities. Prerequisite: 12 hours or equivalent in economics and agricultural economics.

**575-1 to 6 Research.** Directed research in selected areas of agricultural industries.

**581-1 to 6 Seminar.** Problems relating to various phases of the field of agricultural industries, such as farm management, marketing, prices, farm policy, land economics.

**599-1 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree.

## Animal Industries

**415-8 (4,4) Animal Nutrition.** (a) Physical and chemical properties of nutrients and their uses and principles involved in determination of nutrient requirements. (b) An integration of the basic facts concerning the nature of nutrients and their metabolism. Must be taken in a,b sequence. Prerequisites: 315, GSA 101 or equivalent.

**420-4 Commercial Poultry Production.** Broilers, layers, and turkeys as adapted to poultry specialty farms. Field trips. Prerequisite: 125.

**430-4 Dairy Production.** Milk production; feeding, breeding, calf raising; records, buildings, and equipment; sanitation; and disease. Field trip costs about \$5. Prerequisite: 231, 315.

**431-4 Reproduction and Artificial Insemination of Farm Animals.** The anatomy and physiology of reproduction and the principles of artificial insemination in farm animals. Prerequisites: 105 or 231, GSA 201c.

**432-3 Quantitative Inheritance of Farm Animals.** A review of the principles underlying the influence of mutation, selection, migration, and random drift in animal breeding population; estimation and interpretations of heritabilities and genetic correlations; effects of variances of quantitative traits of farm animals. Prerequisite: 332.

**433-3 Dairy Cattle Feeding.** Nutrient requirements of dairy cattle. Feeding calves and heifers for economical growth and cows for economical milk production. Pasture, hay, and silage utilization in milk production. Prerequisites: 231, 315.

**456b-2, 456d-2 Agricultural Marketing Problems and Practices.** (See Agricultural Industries 456.)



- 465-4 to 5 Swine Production.** Breed selection, breeding, feeding, management, and marketing of swine. Field trip costs about \$3. Prerequisites: 105, 315.
- 480-4 Sheep Production.** Breeding, feeding, and management of sheep. Field trip costs about \$3. Prerequisites: 105, 315.
- 485-4 Beef Production.** Breeding, feeding, and management of beef and dual-purpose cattle. Field trip costs about \$3. Prerequisites: 105, 315.
- 487-4 Commercial Livestock Feeding.** Principles and problems in fattening beef cattle and sheep for market. Prerequisites: 105, 315.
- 505-8 (4,4) Research Methods in Agricultural Science.** (a) Experimental design and biometry as applied to agricultural research. (b) Instrumentation and analytical procedures as applied to agricultural research. Prerequisite: consent of instructor.
- 520-1 to 6 Readings in Animal Industries.** Readings in specialized fields under direction of approved graduate specialists.
- 525-4 Advanced Poultry Production.** Study and interpretation of the objectives, design, and results of research in poultry feeding, breeding, and management. Prerequisite: consent of instructor.
- 530-4 Advanced Dairy Production.** Study and interpretation of research in dairy farming, including buildings, herd management, quality milk production, and dairy marketing problems. Prerequisite: 430.
- 565-4 Advanced Swine Production.** Study and interpretation of research in swine feeding, breeding, housing, management and marketing problems. Prerequisite: 465.
- 575-1 to 6 Individual Research.** Investigation of a problem in animal science under the supervision of an approved graduate specialist.
- 579-4 Animal Behavior** (See Zoology 579.)
- 581-1 to 6 Seminar.** Problems relating to various phases of animal industries.
- 599-1 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree.

### **Anthropology**

- 400-4 Man and Culture.** The nature of culture and cultural process. Relationships of culture and man as an individual and as a group. Emphasis on "the anthropological point of view." Prerequisite: 275d or GSB 102a.
- 401-4 Language in Culture.** Language as a part of culture. Linguistics and the study of culture. Prerequisite: 275d or GSB 102a.
- 402-4 Human Biology.** The interaction of biological and cultural behavior. This course would view man as to his zoological positions, genetics, past and present; and the biological bases for his unique behavior in the animal world, i.e., cultural behavior. Prerequisite: 275d or GSB 102a.
- 404-4 Primitive Art and Technology.** The development of man as an art-loving and tool-using being. Artistic and technological traditions of non-Western peoples, past and present. Prerequisite: 275d or GSB 102a.
- 405-4 Social Anthropology.** A comparative approach to the organizational features of human groups. Functional aspects and distributions of kinship, political, religious, and economic systems. Prerequisite: 275d or GSB 102a.
- 408-3 History of Anthropological Thought.** The growth of anthropology as an academic discipline to about 1940, with emphasis upon the concepts and ideas since 1860. Prerequisite: 275d or GSB 102a.
- 409-4 Anthropology and Modern Life.** The applications of anthropological principles to the solution of problems of the modern world. Contributions of anthropology to the work of the educator, social worker, administrator, business man, government official, and other specialists dealing with man in Western and non-Western cultures. Prerequisite: 275d or GSB 102a.
- 413-4 Introduction to General Linguistics.** A study of language theory, classification and change. Prerequisite: 275d or GSB 102a.
- 415-3 Logic of the Social Sciences.** (Same as Philosophy 415). Logical and epistemological examination of the social studies as types of knowledge. Basic problems in philosophy of science with major emphasis upon social science: relationship of theory to fact, nature of induction, nature of causal law, testability, influence of value judgments, etc. Intended for students with considerable maturity in a social science or in philosophy. Prerequisite: 275d or GSB 102a.
- 418-4 Languages of the World.** A description of typological and genetic (historical) relationships among languages of the world, with emphasis on com-

parative phonology and grammatical structure in time and space. Prerequisite: 275d or GSB 102a.

**430-4 Archaeology of North America.** An introduction to the methods of archaeology and a survey of prehistoric Indian cultures north of Mexico, with particular emphasis upon the cultures of the Mississippi Valley. Prerequisite: 275d or GSB 102a.

**441-3 Comparative Economics.** A comparative study of economic systems, with emphasis upon those found in primitive societies. Studies of systems which fall outside the conventional systems such as capitalism, socialism, and fascism. Prerequisite: 275d or GSB 102a.

**442-3 Comparative Folklore.** A comparative study of the role of folklore in various cultures of the world, with emphasis upon non-literate societies. Analysis of motifs, themes, and other elements; comparisons between non-literate and literate groups. Prerequisite: 275b or GSB 102a.

**443-3 Comparative Law.** Legal premises upon which societies are based; systems of the non-literate world; case studies of instances where these systems come into contact with those of literate, technologically advanced cultures. Prerequisite: 275d or GSB 102a.

**444-3 Comparative Religion.** Comparative study of religious systems, with emphasis upon those of non-literate societies. Examination of basic premises and elements of those belief systems normally excluded from discussions of the "Great Religions." Prerequisite: 275d or GSB 102a.

**483-3 to 18 Individual Study in Anthropology.** Guided research upon anthropological problems. Students should consult the chairman before enrolling. Prerequisite: 275d or GSB 102a.

**501-6 (3,3) Pro-seminar in Physical Anthropology.**

**503-6 (3,3) Pro-seminar in Archaeology.**

**505-6 (3,3) Pro-seminar in Linguistics.**

**507-6 (3,3) Pro-seminar in Social Anthropology.**

**509-6 (3,3) Pro-seminar in Ethnology.**

The following seminars will deal with areal and topical problems relevant to the title listed; they will vary in subject matter from year to year. Course schedules will indicate who is the instructor of a particular course. Consultation with the department will indicate the scope of a course.

**510-3 to 9 Seminar in New World Archaeology.**

**511-3 to 9 Seminar in Mesoamerican Archaeology.**

**512-3 to 9 Seminar in Old World Archaeology.**

**520-3 to 9 Seminar in the Ethnology of the New World.**

**521-3 to 9 Seminar in the Ethnology of Mesoamerica.**

**522-3 to 9 Seminar in the Anthropology of Oceania.**

**523-3 to 9 Seminar in the Anthropology of Africa.**

**524-3 to 9 Seminar in the Anthropology of Europe.**

**535-3 to 9 Seminar in Physical Anthropology.**

**545-3 to 9 Seminar in Linguistics.**

**550-3 to 9 Seminar in the Cultures of Latin America.** Topics such as the impact of European conquest and dominance upon the native peoples and cultures in Latin America, pre- and post-conquest manuscripts, assimilation of nonindigenous peoples, with the native cultures.

**560-3 to 9 Seminar in Comparative Social Organization.** Topics such as religion, political organization, social structure, economics, kinship.

**562-3 to 9 Seminar in the Anthropology of Contemporary Peoples.** Topics such as applied anthropology, peasant cultures, American culture and values.

**565-3 to 9 Seminar in Cultural Change and Development.** Topics such as the building of cultures, acculturation, the rise of civilization.

**567-3 to 9 Seminar in Anthropological Theory and Method.** The theory and method of archaeology, or ethnology or physical anthropology.

**570-3 to 9 Seminar in Art and Technology.** Topics such as the art of the early civilizations, the cultural background of art and technology, experimental problems of art, and technology.

**575-3 to 9 Seminar in the Individual and Culture.** Topics such as themes and values, culture personality, enculturation, education.

**581-3 to 9 Seminar in Anthropology.** Topics will be announced.

**582-3 to 27 Problems in Archaeology.** Guided research upon archaeological problems.



**584-3 to 27 Problems in Cultural Anthropology.** Guided research upon problems of ethnology, social anthropology, and linguistics.

**585-3 to 27 Readings in Anthropology.** Guided readings designed to cover special topics and to fill gaps in the student's specialized anthropological background.

**595-6 (3,3) Field Methods in Ethnology.** Includes anthropological methods of enquiry and documentation of culture and habitat together with appropriate instruction in the techniques of field work, such as photography and sound recording. Stress will be laid in the second part of the course (595b) on the linguistic context of culture; its appropriate recording and structural body.

**596-6 (3,3) Field Methods in Archaeology.** Includes anthropological methods of enquiry and documentation of culture and habitat, together with appropriate instruction in the techniques of field work. Stress will be laid in the second part of the course (596b) on the practical application of archaeological methods and techniques to field work.

**597-3 to 27 Fieldwork in Anthropology.** Requirements as directed by staff.

**599-1 to 9 Thesis.**

**600-1 to 48 Dissertation.** No more than 18 hours in any quarter.

### Applied Science

**401-12 (4,4,4) X-Ray Crystallography.** (a) Introductory Crystallography. Lattice theory of the crystal. Miller indices. Crystal zones. The Bravais lattices. Symmetry elements. Proper and improper rotations. Point groups: crystal classes. Operators involving translation. Space groups. Elements of crystal structure. Coordination. Structure types. (b) X-Ray Diffraction Techniques. X-ray diffraction by single crystals: fundamental equations. Reciprocal lattice and Ewald sphere. Optical analog: The optical diffractometer. Single crystal photographic methods: the Laue method: rotating and oscillation, Weissenberg, Buerger-precession and Jong-Bourman. Divergent and convergent-beam techniques. Interpretation of the x-ray diagrams. Diffractometric methods; fundamentals. Identification of polycrystalline materials with x-ray diffractometer (power method). Single crystal diffractometry. Absolute intensity measurements. (c) Crystal Structure Analysis. Fundamental diffraction relations. Determination of the cell size, chemical formula, symmetry and space group. Measurement of intensities: geometrical and physical factors affecting intensities. The structure factor; phase of the structure factor. The anisotropic temperature factor. Fourier synthesis. Electron-density projections. The phase problem. Utilization of anomalous dispersion. Direct determination. The Patterson method. Refinement of the structure with high speed computers.

**418-3 Digital Computers in Research.** Computational techniques for matrix inversion, solution of linear equations, and characteristic roots and vectors; least square analysis, curve-fitting, and regression; design of experiment; solution of nonlinear equations; finding zeros of a function, min-max functional approximation techniques; generation of approximate solutions. Prerequisite: Engineering 222 or Mathematics 225 or equivalent experience and concurrent enrollment in Mathematics 421a.

**419-3 Computer Applications.** A study of methods for efficient utilization of high speed electronic data processing equipment in the processing of statistical data. Emphasis is on principles of applications of computing equipment to the solution of statistical problems. Students are expected to solve problems on the computers. Prerequisite: Mathematics 410a or Guidance 520a or Psychology 520, a knowledge of FORTRAN or consent of instructor.

**421-3 Programming Languages.** A study of the development and use of programming languages for high speed stored program digital computers. Included are problem-, procedure-, and machine-oriented languages, symbolic languages, interpretive systems, macro assemblers, and list processors. A comparison of the languages will be made and each student will prepare programs using the languages studied. Prerequisite: Engineering 222 or consent of instructor.

**422-3 Programming Systems.** The use and methods of electronic data processing systems. Topics are searching, ordering, codifying, information retrieval, process control, executive routines, and heuristic programming. The student will apply system techniques for solution of problems using one or more of



the available high speed digital computers. Prerequisite: Engineering 222 or Mathematics 225 or consent of instructor.

**430-2 to 8 Special Problems in Industry and Technology.** Special opportunity for students to obtain assistance and guidance in the investigation and solution of selected technical problems. Prerequisite: consent of coordinator.

**431-9 (3,3,3) Nuclear Science.** An introductory course to provide a background for further work in nuclear science. Lectures and problems in radioactivity and the uses of radio isotopes, nuclear engineering, introductory reactor theory, and use of an analog computer in solving problems of neutron transport and reactor kinetics. Prerequisites: Mathematics 252b and Applied Science 300.

**432-3 Nuclear Laboratory.** Health physics instruments; characteristics of alpha, beta, and gamma rays; radioactive decay; counting statistics; fundamental neutral experiments. Prerequisite: 300.

**450-4 Fundamentals of Reactive Systems.** Chemical processes, stoichiometry, properties of gases, solution chemistry, modern techniques of analysis, surface chemistry non-ideal systems, rates and mechanics of industrial processes. Instrumentation and process control. Laboratory. Prerequisites: Chemistry 111b,c, and one year of calculus or consent of instructor.

**470-6 (3,3) Engineering Analysis.** (a) Basic vector field theory; transformation theorems. Methods of solution for basic ordinary differential equations with applications to engineering systems. Prerequisite: Mathematics 252. (b) Basic methods of solution for partial differential equations with emphasis on applications of the Laplace, Poisson and heat equations to engineering problems. Basic complex variables, matrix theory, numerical analysis and simulation techniques applied to engineering systems. Prerequisite: 470a or Mathematics 305a.

**501-16 (4,4,4,4) Materials Science.** (a) The Crystal Structure of Materials. The concept of ionic, metallic, van der Waals, and covalent bond. The concept of hydrogen bond. Solid solutions. Interstitial phases. The crystal chemistry of inorganic compounds. Coordination structures. The role of radicals in crystal structures. The organic crystals. Long chain molecular crystals. Clathrate and molecular complexes. The structure of polymers. The structure of glass. The structure of liquids. (b) Crystalline Materials Preparation. Phase rule. Modern theories of crystal growth. Homogeneous and heterogeneous nucleation. Absorption. Layer growth. Dendritic growth: impurities. Rate of crystallization. Preparative crystallization. Twinning. Spiral growth theory. Recrystallization. (c) Perfection of Crystalline Materials. The solid as an imperfect body. Point defects. Isomorphic substitution. Composition disorder. Electron holes and traps. Other point defects. Diffusion. Monodimensional imperfections. Dislocations. The role of dislocations in growth and phase transition. Two dimensional imperfections. Crystal surface. Grain boundaries. Three dimensional imperfections. The role of imperfections in the physical properties of crystalline materials. (d) Thermodynamics of solids. The potential energy of ionic and molecular crystals. Band theory. Stability of solid phases. Equilibrium diagrams. Influence of temperature, pressure, and composition. Polymorphism: role of crystal structure. The thermodynamics of the imperfect crystal.

**503-12 (4,4,4) Physical Properties of Crystalline Materials.** (a) In Relation to Its Symmetry. General principles: The groundwork of crystal physics. Transformations and second-rank tensors. Equilibrium properties: The stress tensor. The strain tensor and thermal expansion. Piezoelectricity: Third rank tensors. Elasticity: Fourth-rank tensors. The matrix method. Thermodynamics of equilibrium properties of crystals. Transport properties: Thermal and electrical conductivity. Thermoelectricity. Crystal Optics: Natural and artificial double refraction: second order effects. Optical activity. (b) In Relation to Its Structure I. Thermal expansion in relation to crystal structure. Compressibility in relation to crystal structure. Influence of temperature. Magnetic and electrical properties in relation to crystal structure. Piroelectricity and piromagnetism. Ferroelectricity and ferroelectrics. Antiferroelectrics. Ferrielectrics. Ferromagnetic crystals. Antiferromagnetics. Domain structures. Phase transitions. (c) In Relation to Its Structure II. Ionic polarizabilities. Influence of temperature. Influence of structure in crystal optics. Molecular refractivity. Structural theory of optical activity. Elasticity and crystal structure. Piezoelectricity. Plastic deformation. Slip. Creep. Cleavage.

- 504-12 (4,4,4) X-Ray Diffraction and the Solid State.** (Same as Physics 504.) (a) Diffraction by an arbitrary object in Fourier transform formulation, symmetry properties of scattering functions, the convolution theorem, the Q function or autoconvolution, the two repeated Fourier transformations, X-ray diffraction by an atom, by a molecule, by an ideal crystal and by a finite crystal. Optical transforms: Fraunhofer diffraction of a circular aperture, of a molecule and of a crystal of disc like atoms. The Fourier synthesis and the Patterson synthesis. The inverse Fourier syntheses. High speed computations of Fourier transforms and of Fourier series. (b) The Born-Laval theory of temperature diffuse scattering of x-rays: Determination of elastic constants, dispersion relations of frequencies and velocities, interatomic force constants and elastic vibrational spectrum. Determination of Debye characteristic temperatures from the inversion phenomenon of one-phonon scattering. The Difference Fourier Transform approach. The use of optical diffractometry and optical convolution in the interpretation of imperfect crystals.
- 521-6 (3,3) Design of Automatic Programming Language Processors.** Analysis of design and construction of automatic programming language processors. An investigation of the structure of scientific and business oriented compilers, list processors, and information processing languages. The student will be expected to review recent papers on these topics, to prepare an aspect of the theory, prepare flow charts and program segments of the processors for the languages studied. Prerequisite: 421.
- 522-6 (3,3) Programming Systems Design.** Design of monitor systems, executive routines, simulators and other systems. An analysis of problems encountered in designing a programming system. The student will be expected to review recent papers on these topics, prepare flow charts, to complete an aspect of the theory, and to write programs for segments of the systems studied. Prerequisite: 422.
- 530-3 Nuclear Processing.** Processing of ore to fuel; reprocessing spent fuel; waste disposal; isotope separation and purification; materials; special reports. Prerequisite: 431b.
- 570-2 to 6 Special Investigations.** For students who wish to make a thorough study or investigation of a specific problem in technological education.
- 580-1 to 9 Seminar.** Collective and individual study of selected issues and problems relating to various technological areas.
- 599-1 to 9 Thesis.**

## Art

- Art Education:** 408, 460, 466, 560, 566, 599.
- Art History:** 445, 482, 483, 571, 573, 599.
- Studio:** 401, 405, 406, 410, 416, 420, 430, 436, 440, 441, 446, 493, 501, 502, 504, 506, 511, 516, 520, 526, 530, 540, 546, 599.
- 401-2 to 12 Research in Painting.**
- 405-2 to 12 Studio in Sculpture.**
- 406-2 to 12 Studio in Painting.**
- 408-4 Art Education for Elementary Teachers II.**
- 410-2 to 12 Research in Prints.**
- 416-2 to 12 Studio in Prints.**
- 420-2 to 12 Research in Pottery.**
- 426-2 to 12 Studio in Pottery.**
- 430-2 to 12 Research in Metal Construction.**
- 436-2 to 12 Studio in Metal Construction.**
- 440-2 to 12 Research in Weaving.**
- 441-2 to 6 Studio in Drawing.**
- 445-9 (3,3,3) Modern Art.** (a) 19th century. (b) Early 20th century, (c) Mid 20th century.
- 446-2 to 12 Studio in Weaving.**
- 447a-3 The Art of Ancient Egypt and the Near East.** A survey of principal monuments and archeological evidence relevant to an appraisal of the origins and development of art in the early civilizations of Africa, Western Asia, Europe and the Aegean from prehistoric times to the rise of the Persian Empire.
- 447b-3 The Art of Ancient Greece.** A study of the origins, development and



influence of art produced in Greece and its colonies from the Bronze age to the Roman Empire.

**447c-3 The Art of The Ancient Romans.** An appraisal of the material culture of art of the Roman civilization, its debt to other ancient civilizations and achievements in architecture, sculpture and painting from its foundation until the reign of Constantine.

**448a-3 Early Christian and Byzantine Art.** A survey of problems related to art and architecture produced in Christian communities and under the aegis of the Byzantine Empire until the Fall of Constantinople.

**448b-3 Early Medieval and Romanesque Art.** A study of the development of architecture and Art in Europe from the fall of the Roman Empire to the formulation of the Gothic style.

**448c-3 Gothic Art.** A survey of major developments in Architecture, Sculpture, and painting in Europe from the earliest formulation of Gothic Style to its decline in the Renaissance period.

**449a-3 Art of the Renaissance in Europe.** A study of developments in art during the 15th Century in Italy and the Lowlands leading to the High Renaissance and its impact in European painting, sculpture, and architecture of the 16th Century. Prerequisite: 225a,b,c.

**449b-3 Baroque Art in Europe.** A study of the formation of national style in the arts of Italy, Spain, Austria, Germany, France, Flanders and Holland from the 16th Century to the 17th Centuries with particular attention to major masters.

**449c-3 The Art of 18th Century Europe.** A study of architecture, sculpture and painting in European countries and colonies from the end of the 17th Century to the French Revolution with particular emphasis on the Rococo Art of Italy, England, Spain and France.

**450-1 The Visual Arts in Higher Education.**

**451a-3 Art of Ancient Asia and America.** A survey of early developments in architecture and the plastic arts of related civilization in India, China, Japan and Ancient America, from prehistoric evidence to major monuments of the First Millenium, A.D.

**451b-3 Painting In the Far East.** General survey of the major pictorial arts of China from six dynasties to Ch'ing dynasty, or Korea from Silla period to Ti dynasty, and of Japan from Asuka to Edo periods. An attempt will be made to trace influences central to the development and spread of important styles and to relate art to the classics of Oriental aesthetics.

**451c-3 Islamic Art.** A survey of important monuments and art works produced in the context of Islamic culture in the Near East, Africa, Spain, Persia, Turkey and India from the 17th Century to the present.

**460-2 to 12 Research in Art Education.**

**466-2 to 12 Studio in Art Education.**

**471-3 Baroque Painting in Italy.** Major developments in style and expression in Italian painting from the late Mannerist period until the early 18th Century.

**482-3 Art History Seminar.** Lectures, readings, and reports on artists, styles, subjects of special interest which will be announced periodically.

**483-3 Research in Art History.** Individual research in the painting, sculpture, architecture, and related arts of the various periods.

**493-2 to 12 Advanced Sculpture.**

**501-2 to 12 Seminar in Painting.**

**502-2 to 12 Seminar in Sculpture.**

**504-2 to 12 Research in Sculpture.**

**506-2 to 12 Research in Painting.**

**511-2 to 12 Seminar in Prints.**

**516-2 to 12 Research in Prints.**

**520-2 to 12 Seminar in Pottery.**

**526-2 to 12 Research in Pottery.**

**530-2 to 12 Seminar in Metal Construction.**

**536-2 to 12 Research in Metal Construction.**

**540-2 to 12 Seminar in Weaving.**

**546-2 to 12 Research in Weaving.**

**560-2 to 12 Seminar in Art Education.**

**566-2 to 12 Research in Art Education.**

**571-2 to 5 Readings in Art History.**



**573-3 to 12 Problems of Art History.** A detailed study of single works of stylistic problems in selected areas of world art.

**599-5 to 9 Thesis.**

### Botany

**400-5 Plant Anatomy.** An introduction to cell division, development, and maturation of the structures of the vascular plants. Laboratory fee \$5. Prerequisites: 300, 301 or consent of instructor.

**404-5 The Algae.** Structure, development, and relationships of the algae. Laboratory and some field work. Laboratory fee. Prerequisite: 300.

**405-5 Mycology.** Structure, development, and relationships of the fungi. Problems of economic and scientific interest stressed. Laboratory. Prerequisite: 300.

**406-5 Industrial Mycology.** A consideration of the myriad ways in which fungi impinge on man's affairs, with special emphasis upon their various industrial application—real and potential. 3 lectures and 4 laboratory hours per week. Prerequisite: 405 or consent of instructor.

**411-4 The Bryophytes and Pteridophytes.** Structure, development, and relationships of the liverworts and mosses, and the ferns and fern allies. Laboratory. Prerequisite: 301.

**412-4 The Spermatophytes.** Structure, development, and relationships of the gymnosperms and angiosperms. Laboratory fee. Prerequisites: 301, 313.

**414-5 Paleobotany.** (Same as Geology 414). An introduction to the study of fossil plants emphasizing the major features of plant evolution and the applications of paleobotany to problems in the botanical and geological sciences. Lecture, laboratory, and field trips. Student cost about \$5. Prerequisite: 310 or 400 or consent of instructor.

**420-4 Physiology of Fungi.** A treatment of the physiological activities of fungi with particular stress upon (1) those aspects peculiar to the group by virtue of their being nonchlorophyllous plants, and (2) an exploration of the possible explanations of the parasitic vs. the saprophytic habit. Prerequisite: consent of instructor.

**425-15 (5,5,5) Advanced Plant Physiology.** (a) Physics of the plant, water relations, membrane phenomena, photobiology. (b) Covers the absorption, translocation, function and interaction of inorganic nutrient elements in green plants with application to forest, agronomic, and horticultural species. (c) Chemistry of the plant, anabolic and catabolic processes, photosynthesis, respiration, chemosynthesis. Prerequisites: 320, Chemistry 350, or a chemistry minor.

**428-3 Plant Nutrition.** The physiological importance of carbon-, nitrogen-, and phosphorus-containing compounds is stressed. Prerequisites: organic chemistry, minor in botany or agriculture.

**440-4 Ecology of Grasses and Grasslands.** Structure, analysis, and dynamics of grassland communities; structure and growth of individual species. Field and laboratory work costs about \$5. Prerequisite: GSA 340 or consent of instructor.

**445-5 Ecology of Forests and Arable Lands.** Forest areas in North America. Developmental and structural analysis of forest types. Autecology of important species. Field trips, approximate cost \$10. Prerequisite: GSA 340.

**449-3 Elements of Taxonomy.** Principles of taxonomic research including classical and experimental methods. 1 lecture and 4 laboratory hours per week. Field and laboratory expenses \$5. Prerequisite: 313 or equivalent, or consent of instructor.

**450-3 Plant Geography.** World distribution of plants and plant communities related to historical, environmental, and floristic factors. Prerequisite: consent of instructor.

**451-4 Introduction to Floristics.** Principles involved and methods used in the analysis of the flora of an area. Laboratory and field work. Student cost about \$10. Prerequisite: 313.

**456-5 Plant Pathology.** (Same as Plant Industries 355.) A study of plant diseases caused by fungi, bacteria, and viruses. Special attention given diseases of southern Illinois plants. Laboratory and field trips. Laboratory fee. Prerequisite: consent of instructor.

**457-4 Forest Pathology.** Nature and control of forest and shade tree diseases.

A study of tree diseases in forests, parks, streets, and nurseries. Fungi important in decay and stain of timber and its products are included. Laboratory fee. Prerequisite: 456 or consent of instructor.

**470-4 Methods of Teaching High School Biology.** Methods, objectives, types of courses taught in secondary school biology. Laboratory and field trips. Prerequisite: major in botany or zoology.

**480-4 Classic Principles of Botany.** Theories, principles, and developments in the various divisions of the plant sciences. Prerequisite: GSA 203 or consent of instructor.

**500-5 Biosystematic Plant Anatomy.** Study of the taxonomic implications of developmental and positional variation of tissues and cell types within plants. Two lecture and six laboratory hours per week. Prerequisite: 400. Recommended: 412, 449.

**503-15 (5,5,5) Angiosperm Taxonomy.** (a) Systematic treatment of all families of the monocotyledoneae. (b,c) Systematic treatment of all families of dicotyledoneae. Laboratory fee. Prerequisite: consent of instructor.

**510-4 Bio-ecology.** (See Zoology 510).

**522-5 Advanced Microtechnique.** Preparation and presentation of research materials. Laboratory work only. Prerequisite: consent of department. Credit on work completed.

**525-5 Cytology.** (Same as Zoology 525). Physiochemical, chemical, and morphological organization of the cell. Ultrastructure of the cellular organelles. Cytochemical and submicroscopical organization of the hereditary material. Morphology and function of the spindle of the nucleus and chromosomes during the mitotic cycle. Synthesis and replication of nucleic acids. RNA and protein synthesis. The genetic code. Enzymes and cell metabolism. Prerequisite: 315 or Zoology 401.

**526-5 Cytogenetics.** Correlation of cytology with genetics. Cell mechanics and nuclear division. Mitosis, meiosis, crossing over and mapping of chromosomes. Mutation, mitotic agents, effect of irradiation, polyploidy, structural aberrations, polytene chromosomes. Synthesis of new species, comparative karyomorphology. Evolution and cytogenetics. Prerequisite: 525 or consent of instructor.

**533-3 to 4 Growth and Development in Plants.** External and internal factors as they effect development and growth of plants, photoperiodism, and the role of growth-promoting substances. 1 hour to be arranged. Prerequisite: 320.

**535-3 Energetics of Aquatic Ecosystems.** Energy flows in aquatic habitats; photosynthesis and respiration rate determinations under natural and laboratory conditions; determination of dominant genera in the communities; daily and annual energy budgets; factors influencing utilization of light by biotic systems; influence of daily and annual energy budgets on stratification on current systems, and on seasonal succession in the community. Prerequisite: consent of instructor.

**542-3 Biosystematics.** An examination of species concepts and factors effecting the formation of species. Evidence from the fields of genecology, cytotaxonomy, genetics, numerical taxonomy, and chromatography are discussed as well as the phenomena of hybridization, polyploidy, and apomixis. Prerequisite: 315 or Zoology 401 or consent of instructor.

**543-5 Experimental Ecology.** Experiments on plant response to environmental factors. Design of experiments, statistical methods, presentation of individual research findings. Laboratory. Prerequisites: 320, GSA 340, or consent of instructor.

**551-4 The Natural Vegetation of the Mississippi Basin, Upland.** Floristic studies of the upland vegetation which occurs in the central basin of the Mississippi River. Student cost \$10. Prerequisite: 313 or consent of instructor.

**552-4 Mississippi Flora, Aquatic.** An analysis of the aquatic vegetation of the Central Mississippi basin, discussing importance to wildlife. Student cost \$10. Prerequisite: 313 or consent of instructor.

**555-12 (4,4,4) Advanced Plant Pathology.** (a) A study of facultative fungal parasitism with emphasis on the physiology of host-parasite interactions. (b) A study of obligate fungal parasitism with emphasis on the physiology of host-parasite interactions. (c) A study of bacterial and viral parasitism with emphasis on the physiology of host-parasite interactions and biochemistry of virus reproduction. Prerequisite: 456 or consent of instructor.

**570-2 to 5 Readings.**

**580-1 to 4 Seminar.** To be taken by all graduate students majoring in botany.



**590-2 to 4 Introduction to Research.** Methods of presentation of research materials, including written reports, graphs, photographs, bibliographies. Taxonomy students learn to write keys and descriptions; Botanical Latin; nomenclature.

**591-3 to 9 Research.** Assignments involving research and individual problems. Prerequisite: consent of department.

**599-3 to 9 Thesis.** Work in the research for and presentation of a thesis. Not more than 9 hours nor fewer than 5 hours will be allowed on thesis work. Total hours in 591 and 599 cannot exceed 15 hours to be applied to the master's degree.

**600-1 to 36 Dissertation.** Minimum of 36 hours to be earned for the Doctor of Philosophy degree.

### **Business Administration**

**500-4 Research Methods and Communications.** Analysis and functional applications of the communication process in the planning, design and presentation of business research data. Provision of a rationale for subsequent studies involving investigative methods.

**501-4 Quantitative Methods for Decision Making.** Study of the means for testing the validity and reliability of managerial conclusions. Selected areas include criteria development, value analysis, and statistical analysis, including both parametric and non-parametric applications of analysis.

**502-4 Business and Society.** Study of the external environment of business; social, political and ethical dimensions; conflicts of business-labor-government power groups. Social responsibilities in the formulation of a business management philosophy.

**510-4 Managerial Accounting and Control.** Relationship of accounting to the functions of production, finance, and distribution; emphasis is given to the usefulness of accounting in administering and controlling an enterprise.

**511-4 Accounting Theory.** Contemporary advanced accounting theory, including controversial issues with emphasis on net income determination and asset valuation; particular attention given to current publications of the professional and governmental agencies.

**512-4 Advanced Auditing.** Development of auditing theory and its implications for auditing practice; emphasis on auditing standards and concepts, pronouncements and bulletins of the American Institute of Certified Public Accountants, and current literature.

**513-4 CPA and Advanced Accounting Problems.** Highly technical problems not covered in undergraduate courses primarily drawn from the American Institute of Certified Public Accountants' examinations.

**514-4 Controllershship.** Function of controllershship in a business organization; analysis of the duties and responsibilities of a controller; contribution of a controller to effective planning, coordination, and control through accounting; case studies.

**519-4 Seminar in Accounting.** Discussion of current problems and theories in accounting.

**521-4 Business Conditions Analysis.** Adaptation of the business firm to business conditions as indicated by measurements, evaluations, and forecasts.

**526-4 Managerial Economics.** A course in the economics of the firm. Emphasizes demand, costs, prices, and profits in developing a conceptual business-decision framework.

**530-4 Financial Management.** A study of financial principles and practices with special emphasis on their relation to managerial planning and control.

**531-4 Financial Policies.** An evaluation of selected financial policies of corporate enterprise with emphasis on capital budgeting, on the equity and current position.

**532-4 Financial Institutions and Markets.** The principal financial institutions and markets will be studied in relation to their contribution to the efficient operation of the individual enterprise and the total economy.

**539-4 Seminar in Finance.** Current issues and practices in business finance. Each student will select a problem for intensive exploration and report his findings to the class.

**540-4 Managerial and Organization Behavior.** Case analyses of human problems in the business organization. Application of findings of behavioral science



research to organizational problems. Development of direction and leadership skills.

**541-4 Operations Analysis and System Controls.** Study of production functions of the firm. Analyses of operational inter-relations, design of planning procedures, and the application of control systems.

**542-4 History and Theory of Management.** An analytical study of the background and growth of management theory from its early beginnings to the present. Emphasis will be largely on the theory and practice of business management.

**543-4 Personnel Management.** Study of the most recent developments in personnel management. Individual reports, book reports, and survey of current professional literature form the bases of the course.

**544-4 Production Management.** Study of the production function associated with various kinds of businesses. Concern is on the integration of production with other functions of business. Analyses with focus upon managerial problems.

**549-4 Seminar in Management.** Study of contemporary theory and practice and recent trends in the field of management. Individual and group research reports.

**550-4 Marketing Management.** A managerial approach in the determination of policies employed in solving problems in marketing.

**551-4 Product Strategy and Management.** Product management and its relationships with business policies and procedures; the development of multi-product strategies, means of developing such strategies, and the problems and methods of commercialization.

**552-4 Advanced Marketing Research and Analysis.** The development of advanced procedures, methods and theory of quantitative and qualitative analysis of primary and secondary marketing data.

**553-4 Transportation Management.** Students will be required to investigate and discuss before the seminar group such topics as intercarrier competition, rate level adjustment, financing, and public policy considerations.

**554-4 Marketing Theory.** Theory in related disciplines is considered in regard to evolving marketing theory. Evaluation of possible theory applications is emphasized.

**559-4 Seminar in Marketing.** Students select and defend, on an individual basis, problems in marketing theory, research, and policy. May be repeated once with consent of department.

**580-4 International Business Operation.** An advanced course for candidates for the Master of Business Administration degree who have a background in business administration theory and practice and who have a special interest in management at the international level.

**590-4 Independent Study.** Directed independent study in selected areas of business administration.

**598-4 Business Policies.** A decision-making frame of reference for application of functional and tool area courses to business cases. Analysis of external and internal environmental constraints on business policy formulation and administration.

**599-4 to 8 Thesis.**

## Chemistry

**411-4 Intermediate Inorganic Chemistry.** Modern inorganic chemistry involving atomic structure, chemical bonds, complexes, and chelate structures; chemistry of familiar and less familiar elements. 3 lecture hours per week. Prerequisite: 461b.

**412-3 Inorganic Preparations.** A study of several important inorganic syntheses. 1 lecture and 6 laboratory hours per week. Prerequisites: 235; 305b or 341c.

**432-8 (4,4) Instrumental Analytical Measurements.** Theory and practice of instrumental analytical measurements, including spectrophotometric, electro-analytical, and chromatographic methods. 2 lecture and 6 laboratory hours per week. May be taken in either sequence. Corequisite: 461b.

**433-3 Intermediate Quantitative Analysis.** A study of the analysis of complex materials, with emphasis on separations, functional group analysis, and instrumental applications. 2 lecture and 3 laboratory hours per week. Prerequisites: 432a or b and 461c.

**438-3 Review of Analytical Chemistry.** A review in depth of current analytical practices in research and industry, including fundamental equilibria, separations, and modern instrumental techniques; designed to update graduate students who are deficient in these areas. Prerequisite: Chemistry 433 or equivalent.

**446-4 Qualitative Organic Analysis.** A systematic study of the separation and identification of organic compounds. 2 lecture and 6 laboratory hours per week. Prerequisite: 305b or 341c.

**447-3 Quantitative Organic Chemistry.** The determination of functional groups and elements commonly found in organic compounds by selected methods of analysis; illustration of general methods of procedure in the field of quantitative organic chemistry. 1 lecture and 6 laboratory hours per week. Prerequisite: 305b or 341c.

**451-9 (3,3,3) Biochemistry.** (a) Function of amino acids, proteins, and carbohydrates. (b) Carbohydrate metabolism; lipid chemistry, function, and metabolism; energy relationships. (c) Amino acid metabolism, enzyme kinetics, nucleic acid function and biosynthesis. Prerequisite: 235, 305b, or 341c.

**455-8 (4,4) Biochemistry Laboratory.** Modern biochemical laboratory techniques. (a) Isolation, purification, and characterization of constituents of living cells. (b) Investigations of pathways, kinetics, energetics, and regulatory mechanisms related to metabolism and enzymic activity. One lecture and 8 laboratory hours per week. Prerequisite: 451.

**460-5 Principles of Physical Chemistry.** Traditional aspects of physical chemistry without the requirement of calculus. Lecture and laboratory. Prerequisites: 235; 305b or 341c, and one year of physics or consent of instructor.

**461-12 (4,4,4) Physical Chemistry.** A fundamental course in physical chemistry. 3 lecture and 3 laboratory hours per week. Prerequisites: 235 (concurrent), 341c, 12 hours of physics, and one year of calculus. Must be taken in a,b,c sequence, and each is a prerequisite for the next course in the sequence.

**464-3 Intermediate Physical Chemistry.** Intermediate between the first year of undergraduate physical chemistry and advanced physical chemistry. Gives a broad foundation in physical chemistry. 3 lecture hours per week. Prerequisite: 461c.

**471-3 Industrial Chemistry.** A survey of modern industrial chemistry and an introduction to chemical research processes. 3 lecture hours per week. Prerequisite: 305b or 341c.

**472-12 (4,4,4) X-Ray Crystallography.** (See Applied Science 401.)

**490-2 Chemical Literature.** A description of the various sources of chemical information and the techniques for carrying out literature searches. 2 lecture hours per week. Prerequisites: 235; 305b or 341c, reading knowledge of German or consent of instructor.

**496-1 to 12 Chemical Problems.** Investigation of individual problems under the direction of a staff member. Prerequisite: consent of instructor and department chairman.

**504-3 Mechanisms and Synthesis in Organic Chemistry.** Examination of the fundamental mechanisms and syntheses of organic chemistry. Prerequisite: 341c.

**511-9 (3,3,3) Advanced Inorganic Chemistry.** Lecture. (a) A theoretical and empirical treatment of chemical bonding and molecular structure. (b,c) Systematic treatment of physical-inorganic chemistry based on the principles learned in (a). The b,c sequence is not mandatory. Prerequisite: 461c.

**517-3 Laboratory Techniques in Inorganic Chemistry.** Advanced techniques for the inorganic research chemist. Prerequisites: 412; 511c or 511b, and consent of instructor.

**519-2 to 30 (2 to 6 per quarter) Advanced Topics in Inorganic Chemistry.** Selected topics such as kinetics of inorganic reactions, stereochemistry of inorganic systems, chemistry of coordination compounds, nonaqueous solvent systems, and others. Prerequisites: 511a and consent of instructor.

**531-3 Theory of Quantative Analysis.** The phenomena utilized in analytical chemistry with emphasis on separation, organic reagents, and complex methods. Lecture. Prerequisite: 433 or satisfactory field examination.

**532-3 Instrumental Methods of Analysis.** Theory and practice of instrumental measurements in analysis with emphasis on commercial samples and applications to research. Lecture and laboratory. Prerequisite: 432 or satisfactory field examination.



**539-2 to 30 (2 to 6 per quarter) Advanced Topics in Analytical Chemistry.** Selected topics such as microanalytical chemistry, absorption spectroscopy, and electroanalytical chemistry. Prerequisite: 432.

**541-3 Advanced Organic Chemistry.** An advanced course covering covalent bonding, structure, stereochemistry, reactions, reaction mechanisms, substituent effects, correlation of physical and chemical properties, and physical methods in organic chemistry. Lecture Prerequisite: 444 or satisfactory field examination.

**542-3 Advanced Organic Chemistry.** Continuation of Chemistry 541. Lecture. Prerequisite: 541.

**543-3 Advanced Organic Chemistry.** Continuation of Chemistry 542. Prerequisite: 542.

**547-3 to 6 Advanced Laboratory Preparations in Organic Chemistry.** Prerequisites: 446 and consent of instructor.

**549-2 to 30 (2 to 6 per quarter) Advanced Topics in Organic Chemistry.** Specialized topics in organic chemistry. The topic to be covered is announced by the department. Prerequisite: 543.

**551-3 Nucleic Acids and Protein Biosynthesis.** Proteins and nucleic acids. Three lecture hours per week. Prerequisite: 451c.

**552-3 Carbohydrate Chemistry.** Simple sugars, oligosaccharides, and polysaccharides. Three lecture hours per week. Prerequisite: 451c.

**553-3 Plant Biochemistry.** Three lecture hours per week. Prerequisite: 451c.

**554-4 Biochemical Mechanisms.** Molecular transformations in biochemistry in terms of general mechanistic principles in chemistry. 3 lecture hours per week. Prerequisite: 451c.

**555-3 Enzymes.** Advanced enzyme chemistry. 3 lecture hours per week. Prerequisite: 451c.

**559-2 to 30 (2 to 6 per quarter) Advanced Topics in Biochemistry.** Selected topics such as enzymology and physical biochemistry. Prerequisite: 451c.

**561-3 Chemical Thermodynamics.** Basic methods and theories as applied to chemical problems. Lecture. Prerequisites: 461c and demonstrated capability.

**562-3 Atomic and Molecular Structure.** A survey of basic principles in atomic spectroscopy, quantum chemistry, and statistical thermodynamics. Lecture. Prerequisite: 561.

**563-3 Chemical Kinetics.** Factors determining the rates of chemical reactions. Lecture. Prerequisite: 562 or consent of instructor.

**569-2 to 30 (2 to 6 per quarter) Advanced Topics in Physical Chemistry.** Colloids and macromolecules, quantum chemistry of atoms, diatomic molecules or polyatomic molecules, statistical mechanics and others. Prerequisite: 561.

**575-1 to 3 Graduate Seminar.**

**594-2 to 15 (2 to 6 per quarter) Special Readings in Chemistry.** Assigned library work in any of the five fields of chemistry with individual instruction by a staff member. (a) Analytical, (b) biochemistry, (c) inorganic, (d) organic, (e) physical. Prerequisites: 24 hours of 500-level chemistry and consent of chairman.

**595-0 to 9 Advanced Seminar in Chemistry.** Advanced level talks presented by graduate students; (a) analytical, (b) biochemistry, (c) inorganic, (d) organic, and (e) physical chemistry. Prerequisite: consent of chairman.

**596-3 to 9 Advanced Chemical Problems.** Individual study and investigation in preparation for research. Prerequisite: consent of chairman.

**597-3 to 15 Research and Thesis.** Prerequisite: consent of chairman.

**598-3 to 48 Research—Doctoral.** Prerequisite: consent of chairman.

**600-3 to 48 Dissertation—Doctoral.** Prerequisite: 598.

## Clothing and Textiles

**423-4 Advanced Family Housing.** (See Home and Family 423.)

**431-4 Advanced Applied Design.** Research problems in experimentation with materials in textile design, linoleum block printing, stencilling, contemporary embroidery, silk-screen printing, etc. Prerequisite: 131 or consent of instructor.

**432-2 to 8 Workshop.** Designed to aid leaders in the field with current problems. Discussion, reports, lectures, and other methods of analyzing and working on solutions to problems. Prerequisite: consent of chairman.

**433-4 Advanced Pattern Designing.** Application of flat pattern design prin-



ciples to the making of patterns for garments of various designs and fabrics. Fitting and pattern alteration related to various figure types. Production cost analysis. Prerequisite: 233 or consent of instructor.

**434-4 History of Costume.** The history of costume from prehistoric times to the present. Social, economic, and aesthetic developments that influenced its design.

**440-4 Clothing the Family.** Needs and wants of individuals at various developmental stages, in family and societal settings with respect to apparel consumption; functional and fashion-motivated choice of clothing; and family budgets.

**470-3 Interior Design Seminar.** A study and appraisal of noted interiors and architecture as interpreted in selected buildings and by selected designers. Prerequisite: consent of instructor.

**473-4 Advanced Tailoring.** The student will tailor one garment for herself. Time-saving methods, high-quality construction details, and professional finishes stressed. Prerequisite: 360 or equivalent. Offered on demand.

**474-4 Advanced Textiles.** The physical and chemical analysis of textiles. Problems dealing with standards, labeling, and legislation. Current literature of developments in the field. Prerequisites: 322 and GSA 101c or consent of instructor.

**481-2 to 6 Readings.** Supervised readings for qualified students. Prerequisite: consent of instructor and chairman.

**500-4 Research Methods.** Study of methods employed in research in clothing, textiles, and interiors. Critique of literature, theses, and research. Development of research design based on interest and need of student. Prerequisite: statistics or consent of instructor.

**570-4 Clothing and Textiles Seminar.** Selected problems within the field of clothing and textiles. Offered on demand.

**572-2 to 8 Special Problems.** For students recommended by their chairman and approved by the chairman of Clothing and Textiles, and the instructor in charge for independent work or directed study.

**582-4 Foundations of Fashion.** Anthropological approaches to fashion and socio-economic and psychological forces as determinants of fashion in modern times. Prerequisites: 329 and 339, or consent of instructor.

**599-5 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree.

## Design

**400-0 to 2 Materials and Basic Techniques.** Same as 200 and 300.

**465f-5 to 15 Research in Product-Shelter Design.** Problems dealing with large groups. All problems carried from conception to actual full-scale construction. Development of prototype for mass-production techniques. Small research projects will be developed under grants given to the department. Prerequisite: 12 hours of 366 or its equivalent.

**465g-5 to 15 Research in Visual Design.** Problems dealing with room-to-eye scale and larger, i.e., posters, car cards, strip film, film, exhibitions, etc. Advanced graphic and photographic technology. Development of prototypes for mass-production techniques. Small research projects will be developed under grants given to the department. Prerequisite: 12 hours of 375 or its equivalent.

**490f-2 to 12 Studio in Product-Shelter Design.** Special projects developed with adjunct and visiting professors.

**490g-2 to 12 Studio in Visual Design.** Special projects developed with adjunct and visiting professors.

**520-4 to 10 Educational Tool Systems.** Designs of specialized instructional tools, including design of learning environments and ancillary support systems for programmed learning.

**530-4 to 12 Studies in the Industrial Process.** Design of products and product systems utilizing contemporary technology for solutions to significant human needs.

**535-4 to 12 Research in Product Design.** Studies of specialized needs or problem areas (i.e., equipment for the handicapped, needs of underdeveloped areas, etc.).

**540-4 to 12 Studies in Communications Design.** Concerned with the over-all systems of human communications, including visual and graphic media.

**545-4 to 12 Research in Communications Design.** Specialized areas of visual and graphic communication extended through various technical systems. Development of related systems involving the whole range of communications included.

**550-2 to 16 Field Study in Design.** Design activity (local, national, or international) carried out with a designated faculty member as liaison. Written report assigned and final report required. All projects must have written approval by the chairman and the liaison faculty member.

**560-4 to 12 Environmental Control.** Selected studies in environ control systems, with particular reference to latest technical advances (i.e., closed ecology and autonomous systems developments) and to contributions in the study of human environment control by other disciplines.

**570-4 to 12 Design Science Exploration.** Procedural methodology and systems approach to comprehensive anticipatory design science.

**575-4 World Ecological Studies.** Review and analysis of man's present socio-economic situation in terms of scientific and technological trending-material and energy resources, human ecology networks.

**576-4 to 8 Structural Evolution.** Structural morphology and relational hierarchies in science and technology. Differentiation and evolution of industrial tool complex; analysis of world service industry networks.

**599-2 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree.

## Economics

**408-4 Economic and Business Statistics II.** Techniques for making decisions when the economic conditions are not known with certainty. 3 hours lecture; 2 hours laboratory. Prerequisite: 307 or GSD 110, or GSD 108c, or GSD 114c, or consent of instructor.

**411-4 Collective Bargaining and Dispute Settlement.** Nature, issues, procedures, economic effects. Analysis of actual collective bargaining situations. Prerequisite: 310 or consent of instructor.

**416-4 Money and Banking II.** Emphasis upon the Federal Reserve System and other banking systems. Prerequisite: 315 or consent of instructor (C); 300 (E).

**418-4 Economic History of Europe.** A survey of the economic growth of Europe with emphasis upon the development of European agriculture, industry, finance, and international trade since 1750. Prerequisite: 205 or GSB 211a, or consent of instructor.

**419-4 Latin American Economic Development.** A survey of the resource base of Latin American economic development with special reference to the problems of transition from an export-import to an integrated industrial economy; monetary policies; problems of economic planning. Prerequisite: 205 or GSB 211a.

**420-4 Recent Economic History of the United States.** Review and analysis of the chief characteristics, trends, and continuing problems of the economy of the United States in the 20th century. Prerequisites: 214, 215.

**422-4 Introduction to Economic Development.** An analysis of the preconditions, processes, and problems involved in economic development. Both the theory and policy relevant to development, with special emphasis upon the "developing" or "emerging" economies, are stressed. Prerequisites: 214, 215.

**429-4 International Economics.** Intensive treatment of the principles of international economics with special emphasis on the classical and modern theories of international trade. Income effects. Balance of payments adjustments. Prerequisites: 205 and 206, or 214 and 215, or consent of instructor.

**430-4 Regional Economy.** Natural economic regions, governmental action (as in the T.V.A.), local applications. Prerequisites: 205 and 206 or 214 and 215.

**431-3 Public Finance II.** State and local. Prerequisite: 330 or consent of the instructor.

**433-4 Inflation, Growth, and Stability.** National income theory with emphasis on (a) the influence of government budgetary programs on the level of national income, employment, growth, and the price level, and (b) the institutional difficulties of formulating and executing a Federal budget program. Prerequisite: 214 or consent of instructor. Note: A student may not receive credit for both 433 and 441.

**436-3 Government and Labor.** (Same as Government 436.) A study of labor



relations and legislation considering both constitutional and economic aspects. Prerequisite: 205 or 215 or GSB 211c or consent of instructor.

**440-4 Intermediate Micro Theory.** A more intensive treatment of price theory. Prerequisites: 205 and 206, or 215, or consent of instructor.

**441-4 Intermediate Macro Theory.** Basic analytical concepts of the modern theory of aggregative income determination. Prerequisites: 205 or 214 or consent of instructor.

**450-6 (3,3) History of Economic Thought.** The development of economic theory. (a) Ancients to 1850; (b) 1850 to present. Must be taken in a,b sequence. Prerequisites: 205 and 206, or 214 and 215, or consent of instructor.

**460-4 Russian Economy.** Development of Russian trade, agriculture, industry, government, finance, and standards of living in successive periods in relation to the historical, geographic, economic, and ideological background. Prerequisite: 205, or GSB 211a, or consent of instructor.

**461-8 (4,4) Comparative Economic Development in Asia.** A comparison of the economies of Japan, India, and China within the framework of emerging economic theory of developing economies (a) Japan from Tokugawa period to the present. (b) Contemporary China and India. Prerequisite: GSB 211 or consent of instructor.

**462-4 Economic Development of the Middle East.** Economic structure of the countries constituting the Middle East; economic, political, social and cultural forces influencing development. Prerequisites: 214, 215.

**465-4 Mathematical Economics I.** A systematic survey of mathematical economic theory. Conditions of static equilibrium (including stability conditions), dynamic models using difference equations, and linear production models of input-output analysis and activity analysis (linear programming). Prerequisite: 440 and consent of instructor.

**467-4 Econometrics I.** Introduction to resource allocation under uncertainty. Probabilistic economic models, theory of games and economic choices, and stochastic economic processes. Prerequisite: consent of instructor.

**471-4 Land Resource Economics.** (Same as Forestry 471 and Agricultural Industries 471.) The use of land as an economic variable in production of goods and services; land market; group versus individual conflicts; elementary land resources planning techniques. Prerequisite: 440, or 441, or Agricultural Industries 350, or Forestry 470.

**472-4 Dynamic Economics: Fluctuations and Growth.** A study of the causal factors which produce fluctuations in economic activity and/or growth. An identification of the factors which affect the length of the cycle, its amplitude and the stability or instability of equilibrium. An examination of the theories and issues of economic growth. Prerequisite: 441 or consent of instructor.

**481-4 Comparative Economic Systems.** Capitalism, socialism, fascism, and other forms of the economy. Prerequisite: 205, or 214 and 215, or consent of instructor.

**490-4 Workshop in Economic Education.** (Same as Education 490.) Designed to assist elementary and secondary school teachers in promoting economic understanding in the minds of their students through the translation of economic principles and problems into classroom teaching materials.

**500-4 to 8 Economics Seminar.** A study of a common, general topic in the field of economics, with individual reports on special topics. Prerequisite: 206 or 214 and 215, or consent of instructor.

**501-1 to 5 Economics Readings.** Contemporary books and periodicals in economics. Prerequisite: consent of chairman.

**502-1 to 6 Readings in Resource Economics.** (Same as Forestry 520b and Agricultural Industries 520b.) Directed readings in the field of resource economics. Prerequisite: consent of instructor.

**512-4 Labor Economics.** Economic principles involved in the employment relationship. Such topics as wage theory, the labor market, employment and unemployment, and the economic effect of collective bargaining are covered. Prerequisite: 310, or 411, or consent of instructor.

**517-4 Monetary Theory and Policy.** Current monetary theory and policy emphasized. Federal Reserve policy is analyzed. Necessity for coordination of monetary policy with fiscal policy and debt management operations is discussed. Prerequisites: 315 and 441, or consent of instructor.

**520-8 (4,4) Economic Development Theory and Policy.** (a) Classical, neoclas-



sical, and modern contributions to the theory of development; theories of underdevelopment. (b) Basic approaches to economic development; laissez-faire; balanced growth; unbalanced growth; role of government; methods of planning; and foreign aid. Must be taken in a,b sequence. Prerequisite: 440, 441.

**526-4 Managerial Economics.** (Same as Business Administration 526.) A course in the economics of the firm. Designed to develop a conceptual framework for business decision making with emphasis on demand, costs, prices, and profits. Prerequisites: 214 and 215, or 413, or consent of instructor. Credit may not be earned in both Economics 440 and this course.

**530-4 Foreign Trade and Finance.** Emphasis on the advanced theory of international trade and finance. Survey of significant literature in international theory. Study of more advanced tools of analysis. Prerequisite: 429 or consent of instructor.

**531-4 Seminar in International Economics.** Application of theory to current international economic developments. Empirical studies. Foreign economic policy. Prerequisite: 530 or consent of instructor.

**533-4 Public Finance Theory and Practice.** Historical development of public finance theories with analysis of their policy implications. Prerequisite: 330 or consent of instructor.

**541-4 National Income Theory.** Keynesian and post-Keynesian developments in national income theory. Empirical research concerned with characteristics and magnitudes of important national income concepts, such as the consumption function, is examined. Recent American policies and problems bearing on national income fluctuations are considered. Prerequisite: 441 or consent of instructor.

**542-4 Price Theory.** Designed to develop skills in the use of the analytical tools, including the basic mathematical techniques, used in price theory. Prerequisite: 440 or consent of instructor.

**543-4 Seminar in Economic Policy.** A consideration of departures in the American economy from the principle of resource allocation by the price system, and an attempt to develop principles of economic policy which could serve as guides in efforts to raise living standards and promote economic growth. Prerequisites: 440 and 441 or consent of instructor.

**545-4 Oligopoly and Related Market Structures.** Theories of oligopoly, duopoly, and monopolistic competition. Emphasis on the problems of theory construction when the participants in the market recognize their interdependence. Prerequisite: 542.

**552-4 Seminar in Economic Thought.** An exploration of the basic philosophic assumptions which underlie the various types of economic thought with special emphasis upon the historical development of the premises of modern day economic theories. Prerequisite: 450 and 451, or 450a,b, or consent of instructor.

**555-4 Seminar in Economic History.** An examination of the structural economic changes in various economies throughout the world. Prerequisites: consent of instructor.

**562-4 Seminar in Economic Systems.** A final, theoretically-oriented examination of economic systems. Includes recent theoretical models; contemporary changes in major economic systems; the emergence of mixed systems. Relates economic, social, and political systems and evaluates attempts to place economic systems within to context of general systems theory. Prerequisite: 481 or consent of instructor.

**566-4 Mathematical Economics II.** Linear economic models. Linear programming. Input-Output analysis and general equilibrium models. Prerequisite: 440 or 465, or consent of instructor.

**567-4 Econometrics II.** Problems in utilizing multivariate statistical techniques in the testing of complex economic models. Prerequisite: 467, 566, and Mathematics 410c or equivalent.

**575-4 Economic Regulation.** An analysis of the economic causes and effects of the regulation of agriculture, business, and labor. Prerequisite: 440 or consent of instructor.

**581-4 Economics of Welfare.** The application of economic theory to the quest for economic welfare. Includes consideration of income distribution, rates of growth, the pricing system, and the role of government. Prerequisite: 440 or equivalent.

**582-0 to 4 Economic Behavior.** A theoretical and empirical study of the behavioral aspects of economics, including the behavior of firms, households, and government. This course draws upon the recent literature of economics and also, on frontier areas, upon directly relevant concepts and findings of related behavioral sciences. Prerequisite: 440 or equivalent or consent of instructor.

**583-4 Methodological Foundations of Economics.** A systematic analysis of the nature, philosophical content, premises, scope, boundaries, and characteristic methods of economics. The history of economic thought is drawn upon, but major focus is upon the contemporary state of the discipline as well as upon apparent methodological trends. Prerequisites: 440 and 441 or equivalent.

**599-2 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree.

**600-3 to 48 Doctoral Dissertation.** Hours and credit to be arranged by chairman.

### Educational Administration and Foundations

Students who wish to take the following courses on the Carbondale campus will need approval by the Department of Educational Administration and Supervision prior to Graduate Office program approval: 420, 424, 434, 456, 460, 500, 527, 533, 534a,b, 535, 539, 556.

**431-4 History of Education in the United States.** An historical study of the problems of American education which have relevance to contemporary education.

**432-4 Education and Social Forces.** Analysis and classification of propaganda. Designed to show how public opinion is formed by a use of current materials from the different channels of communication. Differences between propaganda and indoctrination.

**500-4 Research Methods.** Introduction to educational research with practical training in research writing techniques and evaluation in education.

**501-12 (4,4,4) Seminar in Educational Administration.** The interdisciplinary approach to the study of the theory of educational administration. Open to students in approved sixth year and doctoral programs only.

**502-4 Seminar in Comparative Education.** Educational ideas and practices of various countries of the world, both Eastern and Western, and their impact upon our culture and education.

**502s-4 Seminar in Comparative Education: Soviet Russia.** A study of Soviet education in historical, cultural, political, philosophical, and world perspective. Emphasis is on education in Communist morality and the creation of the "New Soviet Man." Includes a consideration of the challenge to American education and the issue of the study of Communism in our schools.

**503-4 Seminar in Philosophy of Education.** An interpretation of modern educational problems and trends in the light of basic philosophical viewpoints. Excerpts from the leading philosophical writings are used. Prerequisite: 554 or equivalent.

**504-4 Seminar in History of European Education.** A survey and interpretation of education in Europe from the Greek era to the present. Stresses the relationship of European to American education.

**506-4 Seminar: Curriculum in Relation to American Culture.** The effect of historical movements on curriculum in our nation at all ages and grade levels continued on a more intensive basis as applied to present-day curricular patterns. Prerequisite: 460 or consent of instructor.

**507-12 (4,4,4) The Twentieth Century and Education.** Major movements in the contemporary world are studied in terms of their importance for American education.

**508-8 (4,4) Interdisciplinary Seminar in Educational Administration.** Covers basic topics in fields related to Educational Administration. Prerequisite: consent of instructor.

**511-12 (4,4,4) Internship Practicum.** The study of theory and practice in school administration pursued simultaneously by the student in cooperation with a public school and the Department. Prerequisite: consent of the department advisory committee.

**512-3 Workshop in Adult Education.** For teachers and administrators in adult education programs. Problems related to the adult learner, program planning, and methods and materials. Prerequisite: consent of instructor.



**520-8 (4,4) Legal Basis of American Education.** (a) Exploration of principles of law applicable to public schools and school personnel. (b) Illinois school law. Study of the legal aspects of Illinois public education with principle emphasis on statutory law and its interpretation by the courts. Must be taken in a,b sequence. Prerequisite: 420.

**524-12 (4,4,4) School Administration.** Basic orientation to the field of school administration and to the legal and extra-legal forces affecting public school operation.

**527-2 to 4 Current Issues in School Administration.** A field laboratory course for principals and superintendents.

**533-4 School Buildings.** Various phases of physical plant design and maintenance of concern to the school administrator.

**534a-4 School Finance.** A study of the principles and issues of Public School Finance. Revenues, expenditures, indebtedness, and fiscal controls are dealt with.

**534b-4 School Business Administration.** Principles and practices governing management of business affairs of a public school system.

**534c-2 to 4 Educational Application of Electronic Data Processing.**

**535-4 Research in Problems of School Administration.** An intensive course for school principals on the theory and principles of administration.

**536a-3 Administrator's Workshop.** A special program for the consideration of administrative problems pertinent to superintendents, high school principals, and elementary school principals.

**539-4 Community Development Through the School.** Comprehensive survey of the resources of a particular community: the cataloguing of material for the use by the teachers of the community to help determine needed curriculum changes.

**554-4 Contrasting Philosophies of Education.** Deals both historically and contemporaneously with the ideologies which have developed from different concepts and philosophies of education. Prerequisite: 355 or Philosophy 355 or equivalent.

**556-8 (4,4) School Supervision.** (a) The function of the principal or supervisor in the improvement of instruction. Some activities, methods, and devices for improving the effectiveness of teaching. (b) Seminar in educational supervision. Special research problems in supervision for advanced graduate students. Must be taken in a,b sequence.

**560-4 Curriculum.** Modern practices and procedures in curriculum development, with attention to the professional, social, economic, and other major factors, in curriculum planning.

**563-4 School Public Relations.** To meet the needs of teachers, supervisors, and administrators, in the area of public relations. Prerequisite: consent of instructor.

**575-1 to 4 Individual Research.** Selection, investigation, and writing of a research assignment under the personal supervision of a graduate faculty member in one of the following areas: (a) curriculum, (b) supervision, (c) buildings, (d) finance, (e) school law, (f) comparative education; (g) history of education, (h) philosophy of education, (j) administration, (k) elementary education. Prerequisite: 500, approval of department adviser and consent of instructor.

**576-1 to 4 Readings in Administration and Supervision.** Open only to advanced graduate students. Prerequisite: 501a.

**589-2 to 12 General Graduate Seminar.** (Same as Philosophy 589). For students having special interests in the history of philosophy and the systematic development of philosophic ideas. Prerequisite: consent of instructor.

**591-2 Seminar in Social and Philosophical Foundations.** Concurrent with Guidance 590 as part of sequence required of all students who are beginning advanced graduate study for the Doctor of Philosophy degree in education. Prerequisite: advanced standing.

**592-4 Doctoral Seminar In Cultural Foundations of Education.** An integrated seminar in the cultural foundations of education for doctoral students in education. Prerequisite: 591.

**596-5 to 9 Independent Investigation.** Field study required of each student working for the sixth-year specialist certificate.

**597-1 to 3, 598-1 to 3, 599-1 to 3. Thesis.** Minimum of 5 hours to be counted toward the master's degree.



**600-1 to 48 Dissertation.** Minimum of 36 hours to be earned for the Doctor of Philosophy degree.

### **Elementary Education**

**401-2 to 4 Problems in Public School Reading.** Requirements: attendance at all sessions of a reading conference, preparation of a paper showing practical applications of theory to the student's own teaching situation.

**410-4 Improvement of Instruction in Arithmetic in Kindergarten-Primary Grades.** Recent findings and current practices in building a basis for quantitative thinking in early childhood education. Special emphasis upon grade placement of content and of techniques to aid children in understanding of the number system. Prerequisite: Mathematics 210.

**411-4 Seminar in Instruction.** To assist student teachers and in-service teachers in solving classroom problems. Involves clinical study and discussion of behavioral and learning situations, with special attention to the development of characteristics and needs of students.

**413-4 Children's Literature.** Emphasizes types of literature, analysis of literary qualities, selection and presentation of literature for children. Not for students who have had English 213. Prerequisite: Guidance 305.

**415-2 to 4 Improvement of Instruction in Arithmetic in the Elementary School.** Items to be taught, the grade placement of content, newer instructional practices and materials of instruction, and means of evaluating achievement. Prerequisite: Mathematics 210 or consent of instructor.

**430-3 Workshop in Creative Writing in the Elementary School.** Techniques of encouraging creative writing in the elementary school.

**431-2 to 4 Education for the Disadvantaged Child.** An understanding of culturally disadvantaged children with emphasis on the nonurban poor. Discussion of necessary adjustments of school programs emphasizing early school admission, experimental background, self-concept, language development, and learning style.

**433-4 Workshop in Kindergarten-Primary Education.** Meets needs of in-service teachers in such areas as curriculum adjustment, remedial teaching, child development, and early childhood education. No credit if student has had 333 or 390.

**435-4 to 8 Workshop in Elementary School Foreign Language Instruction.**

**437-4 Problems in Reading.** Practices and trends in the teaching of reading; materials of instruction in reading, particularly remedial materials; techniques and materials for prevention of reading difficulties; diagnosis and remediation of reading difficulties. Prerequisites: senior standing, 337. Not open to students who have had 505.

**441-4 Workshop in Elementary School Science.** Brief review of aims and methods. Emphasis upon selection and use of curriculum materials including new curricular developments, planning for teaching and learning, and evaluation.

**442-4 Teaching Elementary School Science.** Study of content and methods of elementary school science.

**443-4 Workshop in Social Studies.** Material on critical areas of the world not commonly emphasized in elementary social studies. Areas considered: significant geographical concepts, Asia, Africa, Russia, and Eastern Europe. Outstanding specialists in social science present their specialties.

**445-4 Parent Involvement in Education.** Study of materials, techniques, and resources suitable for use by teachers in helping parents and teachers to understand how they can help each other in the partnership responsibilities of the education of culturally disadvantaged children. Prerequisite: student teaching or consent of instructor.

**465-4 Seminar in Psychology of Elementary School Subjects.** Psychological principles of learning applied to the mastery of materials used in elementary school subjects. Prerequisites: 314, Guidance 305.

**490-2 to 3 Workshop in Economic Education in Elementary Schools.** A study of newer programs stressing economic understandings of the social studies in the elementary school.

**503-9 NDEA Institute in Reading.** Emphasizes newer methods and techniques in teaching reading, research findings and applications, adaptation of methods



and techniques to various types of pupils. Critical evaluation of new approaches. Prerequisite: students must be selected in advance.

**505-4 Readings in the Elementary School.** First course in the reading sequence. Survey of reading problems, aspects of the reading process, modern practices in teaching reading.

**507-2 to 4 Readings in Reading.** Independent reading; acquaintanceship with the literature and research in reading. Conference periods. Prerequisite: 505 and consent of instructor.

**509-4 to 8 Practicum in Reading.** For advanced students; teaching demonstrations and evaluations. Each student works with a group of reading disability cases. Prerequisites: 521a,b, and c, and consent of instructor.

**510-4 to 8 Seminar: Problems in Reading.** Major field content seminar: Problems and practices; comprehensive review and evaluation of research and literature. Each student pursues a problem of his own interest.

**514-4 Organization and Administration of Reading Programs.** For reading specialists, principals, supervisors, consultants. Recent trends in elementary and high school reading programs, providing reading instruction for total school population, materials and equipment, in-service training, role of the reading specialist. Problems of class members are studied and discussed. Prerequisites: 461 and 505.

**515-4 Special Problems in the Teaching of Arithmetic in the Elementary School.** A seminar course which covers important problems in arithmetic in the elementary school. Variable content. Prerequisite: 415 or consent of instructor.

**516-8 to 12 Internship in Reading.** Culminating experience for doctoral candidates. Each student supervises reading services in his own or cooperating school. Conference periods. Prerequisites: 521a,b,c and consent of instructor.

**517-2 to 4 Kindergarten-Primary Practicum.** Practical applications of advanced theory in the Laboratory School. Readings and research related to special problems in the kindergarten-primary classroom. Prerequisite: 8 hours of student teaching.

**518-2 Supervision of Student Teachers.** The function of the supervisory teacher in the student teacher situation. Particular attention to the problem of student teaching in the public schools. A course for present and prospective teachers who wish to be more effective in dealing with student teachers.

**519-2 to 4 Readings in Research—Elementary Mathematics.** Independent readings. Acquaintance with the research literature in elementary mathematics. Conference periods. Prerequisites: 415, 515.

**520-4 Diagnosis and Correction of Elementary Mathematics Disabilities.** Causes of mathematical difficulties, observation and instrument procedures, experience in preparing materials for diagnosis and for corrective purposes. Prerequisite: 515 or concurrent registration.

**521-12 (4,4,4) Diagnosis and Correction of Reading Disabilities.** Causes of reading difficulties; observation and interview procedures; standardized tests, instruments, and informal inventories; analysis techniques; experiences in preparing materials for corrective purposes. Each student diagnoses and treats a reading disability case under supervision. Prerequisites: 505, or concurrent registration with 505, and teaching experience.

**525-4 Kindergarten-Primary Seminar.** Exploration of research literature on problems in early childhood education. Each student to select problem or problems and to present paper to the seminar. Prerequisite: Educational Administration 500 or equivalent.

**537-4 Kindergarten-Primary Reading.** A survey of problems in the developmental reading program for the primary grades, followed by extensive study of selected problems. Prerequisite: 337 or consent of instructor.

**541-4 Problems in Elementary School Science.** Emphasis upon identifying and planning for the solution of problems related to the science curriculum, and problems in the classroom concerning teaching and learning. Prerequisites: 441, or 442, and Educational Administration 500.

**542-3 to 4 Language Arts in the Elementary School.** The practical bearing of investigation and theory on the improvement of current practices in the teaching of the language arts other than reading. Attention given to evaluation of teaching materials in these areas.

**543-4 Teaching the Social Studies in the Elementary School.** Organization of material for teaching purposes, techniques of classroom presentation, bibliog-

raphies or materials, use of audio and visual aids to instruction, and techniques for evaluating student progress. Readings, lectures, and discussions related to required teaching experience.

**557-4 The Elementary Principalship.** Designed to meet many of the particular needs of persons interested in qualifying for appointments as elementary school principals. Other than the administrative responsibilities of the elementary principal, such topics as the grouping of pupils, the elementary school's program, and personnel are studied.

**558-3 to 4 Leadership in Elementary Education.** A study of some newer developments in the organization and instruction of the elementary school. Team teaching, a non-graded school, grouping and the impact of newer curricular developments.

**559-4 Workshop in Instructional Leadership.**

**560-4 Kindergarten-Primary Education.** A survey of current problems and practices in early childhood education for children from four to eight years of age, with emphasis on wide reading in current research literature. Prerequisite: consent of instructor.

**561-4 The Elementary School Curriculum.** A critical study of the reorganization, construction, and administration of the elementary school curriculum, and the installation, adaptation, and administration of the revised curriculum.

**563-4 Organization of the Elementary School.** An analysis of types of elementary school organization with special attention to influence of school organization upon the educational program. Application of research findings to selection and use of materials of instruction. Special consideration to student's professional problems.

**570-2 to 4 Seminar, Research in Elementary Education.** Critical analysis of the most significant research studies in organization, learning, teaching, and curriculum in the elementary education.

**575-2 to 4 Individual Research.** The selection, investigation, and writing of a research topic, under the personal supervision of a member of the departmental graduate staff, in one of the following areas: (a) curriculum, (b) supervision, (c) language arts, (d) science, (e) reading, (f) social studies, (g) problems in elementary education, (h) arithmetic, (j) problems in kindergarten-primary, (k) elementary education administration and supervision.

**596-5 to 9 Independent Investigation.** Field study required of each student working for the sixth year specialist certificate. The work should be done in the setting of a school system where the student is employed or where full cooperation is extended. The study involves selecting of the problem, survey of pertinent literature, recording of results, and appropriate interpretations and summarizations.

**599-3 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree.

**600-1 to 48 Dissertation.** Minimum of 36 hours for the Doctor of Philosophy degree.

## Engineering

**401-9 (3,3,3) Principles of Propulsion.** (a) The basic principles of propulsion dynamics. (b) The thermodynamics of fluid flow and application to propulsion engines. (c) An extensive treatment of the technological problems in the design of propulsion systems. Must be taken in a,b,c sequence. Prerequisite: 300a,b,c.

**406-3 Introductory Wave Motion.** Wave motion in strings, bars, and fluids. Fourier methods. Electromagnetic waves. Prerequisite: Mathematics 252b.

**412-9 (3,3,3) Engineering Practice.** (a) Written communication encountered in engineering organizations: correspondence, memoranda, technical papers, specifications, and reports. Lectures, conferences, and frequent written assignments are adapted to the individual needs of each student. (b) The law of contracts with enough emphasis on legal procedure to enable students to understand decided cases. If possible, the study of the legal material will be followed by practice in applying some of the principles. (c) Research methods and design of experiments. Prerequisite: 361.

**413-6 (3,3) Intermediate Mechanics of Fluids.** (a) Application of the basic laws of nature of the theory of fluids using the continuum approach. Kinematics of fluid motion using various coordinate systems. Dynamics of viscous fluid motion with some solutions to the fundamental system of equations. (b)



Vorticity, stream functions and the velocity potential. Incompressible irrotational flow. The compressible flow equations and an introduction to the theory of homogeneous turbulence. Must be taken in a,b sequence. Prerequisites: 313a,b, Mathematics 305a.

**415-9 (3,3,3) Principles of Water Quality Control.** (a) Characteristics of water quality, both natural and man-made; relationship of quality to use; unit operations of water quality control for municipal and industrial use. (b) Characteristics of waste waters; fundamental concepts of biological and chemical processes for the treatment of sewage and industrial wastes; water quality criteria in stream pollution control. (c) Application of physical, chemical and biological unit operations and unit processes to the functional design of treatment facilities for water, sewage and industrial wastes. Prerequisite: consent of instructor. Must be taken in a,b,c sequence.

**416-6 (3,3) Water Quality Control.** (a) Application of the principles of analytical, physical and organic chemistry to the analysis and treatment of water, sewage, and industrial wastes. Laboratory. (b) The ecology of streams, lakes, and other water resources; identification and control of microorganisms in water and wastes; basic principles of microbiology and biochemistry as related to stream pollution and water quality control. Laboratory. Must be taken in a,b sequence. Prerequisite: Chemistry 111c, consent of instructor.

**420-9 (3,3,3) Transport Phenomena.** (a) Mechanism of heat, mass and momentum transport on both molecular and continuum basis. Estimation of transport properties. Generalized equations of transport in one or three dimensional system. (b) Interphase transport in isothermal and nonisothermal systems. Unsteady state transport problems in multicomponent systems. Mechanism ration analysis. Analogy of mass, heat, and momentum transfer. (c) Macroscopic balances, diffusion operations, penetration theory, simultaneous mass and heat transfer, equilibrium operations. Prerequisite: Mathematics 252b.

**422-4 Operations Research and Mathematical Model Formulation.** Applications of digital computers to the mathematical modelling of physical systems with particular emphasis on the simulation and problem solving techniques of operations research. A critical study of "the scientific method" and its implications as an aid to the conduct of scientific research. Dynamic models of transportation, allocation, and replacement. Physical applications and computation techniques related to the theory of games. Introduction to "real-time" techniques. Prerequisites: 222 and GSD 114c or consent of instructor.

**423-3 Hybrid Computation.** The simultaneous use of the analog and the digital computer for the solution of engineering problems. Scaling of problems. Block diagrams and logic are stressed. Linear and nonlinear differential equations. Simulation as well as iterative analog computation are covered. Prerequisite: Engineering 222 or Mathematics 225.

**425-2 to 8 Practicum in Technology.** Experiences in the industrial applications of technological knowledge. Cooperative arrangements with selected corporations and professional organizations provide opportunity to study technical problems in the industrial environment under the direction of specialists. Prerequisite: 12 hours in technical subjects.

**430-2 to 8 Special Problems in Industry and Technology.** Special opportunity for students to obtain assistance and guidance in the investigation and solution of selected technical problems. Prerequisite: consent of instructor.

**435-9 (3,3,3) Electronics.** (a) An introduction to electronics for all students of engineering. A foundation for more advanced studies in electronics. (b,c) Electron tube theory, amplifiers, modulation, vacuum tube and transistor circuits. Laboratory. Must be taken in a,b,c sequence. Prerequisite: 331a,b,c.

**439-6 (3,3) Transient Analysis.** A study of electrical and mechanical networks by means of the Laplace Transform. Theoretical vibration problems in the real and complex time domain as they apply to engineering will be discussed. Prerequisites: 331a,b,c, Mathematics 305b.

**441-3 Wave Motion.** Wave motion in solids. Seismic waves. Reflection and refraction. Dispersion. Prerequisite: Mathematics 252b.

**443-9 (3,3,3) Engineering Design.** Projects of a research design or development nature. The student will select a problem, develop the theory for a solution, check the theory experimentally, analyze the data, and compare the results. The project can be from one to three quarters in length. Laboratory. Must be taken in a,b,c sequence. Prerequisites: 300, 311, 331a,b,c.



**445-12 (3,3,3,3) Solid Mechanics.** (a) Triaxial stress fields. Strain-displacement relations in non-rectangular coordinates. Deviatoric stress and deviatoric strain. Mises and Pradtl-Reuss equations in plasticity. (b) Voigt, Maxwell, and Standard viscoelastic solids. Theory of equivalent elastic problems. (c) Equations of motion for free and forced motion of mechanical-electrical systems. (d) Lagrangian equations. Damping. Energy methods. Numerical methods. Prerequisite: 311a,b; Mathematics 252.

**446-9 (3,3,3) Mechanical Energy Conversion.** (a) Modern power plant cycles, pumps, fans, fuels, steam generator boiler auxiliaries, and heat exchangers. (b) A detailed study of the design and operation of steam turbines. (c) The theory and design of gas turbines and jet engines. Must be taken in a,b,c sequence. Prerequisites: 300a,b,c, 311a,b,c.

**450-4 Fundamentals of Reactive Systems.** Chemical processes, stoichiometry, properties of gases, solution chemistry, modern techniques of analysis, surface chemistry. Non-ideal systems, rates and mechanisms of industrial processes. Instrumentation and process control. Laboratory. Prerequisites: Chemistry 111b,c and one year of calculus, or consent of instructor.

**460-8 (4,4) Engineering Analysis for Decision Making.** (a) Introduction to fundamental concepts and theorems of engineering analysis with emphasis on the theory of linear, dynamic, and integer programming. Network analysis, inventory theory, simplex and revised simplex method, and dual theorem. Prerequisites: Mathematics 252b, 361 or consent of instructor. (b) Introduction to advanced linear programming, nonlinear, probabilistic, and stochastic programming. Prerequisites: 460a, 370 or consent of instructor.

**461-6 (3,3) Energy Methods in Elasticity.** (a) Energy concepts in mechanics. Beam and rods. Trusses. Redundancy. Bents. Castigliano's principle. (b) Method of calculus of variations. Buckling theory. Elementary vibrations. Hamilton's principle. Equations of Lagrange and Hamilton. Prerequisites: 260a,b,c, 311a.

**462-6 (3,3) Matrix Methods in Structural Analysis.** (a) Introduction to matrix algebra. Matrix force method. Stiffness matrix method. Matrix displacement method. Computer analysis of trusses and frames. Moment distribution. (b) Introduction to undamped and damped vibrations. State and transfer matrices in vibration analysis. Miscellaneous applications. Prerequisites: 260a,b,c, 311a.

**463-6 (3,3) Introductory Instrumentation.** Strain gages, bolometers, diffraction gratings, electromagnetic techniques, chemical techniques, spectroscopy, photoelasticity, signal sensing, data handling, recording systems, transducers. Prerequisite: 413, 414, 435a; Mathematics 252b.

**502-9 (3,3,3) Advanced Heat Transfer.** (a) The treatment of heat transfer problems involving distributed heat sources in laminar and turbulent shear flow. (b) Discussion of boundary layer temperature distributions in system with and without heat sources. (c) Discussions of analogies used in convective heat transfer. May be taken in a,b,c or b,a,c sequence. Prerequisite: consent of instructor.

**503-6 (3,3) Heating and Cooling Systems.** (a) The applications of heating and cooling to engineering systems. (b) The design of various systems, including automatic controls. May be taken in any sequence.

**510-9 (3,3,3) Electromagnetic Fields.** Static boundary value problems; conformal transformation; Schwartz-Christoffel transformation; harmonics; application of Maxwell's equations to plane waves in dielectrics and conductors, antennas, and radiation. Prerequisite: consent of instructor.

**511-6 (3,3) Quantum Electronics.** An introduction to quantum theory with applications taken from the field of electronics. A study of plasmas, fusion, atomic structure, superconductivity from a theoretical engineering view. Prerequisite: consent of instructor.

**512-8 (4,4) Continuum Mechanics.** (a) Definition of a tensor. Tensor algebra, special tensors, tensor derivatives, differential geometry, kinematics and dynamics. Tensor quantities in continuum mechanics, stress, strain. (b) Measures of stress and strain. Equations of equilibrium, constitutive equations, compatibility equations. Strain energy functions, linear theory of classical elasticity, special examples, stress functions and general four-function method. Prerequisite: Mathematics 305b.

**513-3 Mechanics of Viscous Fluids.** The complete system of equations for laminar flow of a viscous fluid using the continuum approach, the stress and rates-of-deformation tensors, exact solutions to various boundary value prob-



lems, creeping motion, boundary layer theory, introduction to hydrodynamic stability, Orr-Sommerfeld equations, statistical theories of turbulence. Prerequisite: 413a,b or consent of instructor.

**514-3 Mechanics of Inviscid Fluids.** A study of stream functions, the velocity potential, Euler equations, Bernoulli equations, various solutions to Laplace's equation, added masses, Taylor theorem, Blasius and Kutta theorems, two-dimensional irrotational flows, Cauchy-Riemann equations, conformal mapping, vortex flow, thin airfoil theory, and free-streamline flows. Prerequisite: 413a,b or consent of instructor.

**515-3 Wave Motion in Fluids.** A study of surface waves in liquids, group velocity and dispersion, shallow water waves, wave makers, sound waves, the method of characteristics, waves in a gas of variable density, shock waves, waves in a rotating fluid. Prerequisite: 413 a,b or consent of instructor.

**516-8 (4,4) Water Resources Development.** (a) Engineering aspects of porous reservoir systems. Solid reservoir structure. Porous medium physics. Description of reservoirs. Reservoir fluids including physics and chemistry of water and hydrocarbons. (b) The performance of reservoir systems including reservoir flow with such topics as potential theory, well hydraulics, and basin-wide interactions.

**517-12 (4,4,4) Analysis and Design of Engineering Systems.** (a) Application of general system concepts to wide range of physical and engineering processes. Emphasis on variable flow of matter, energy, entropy, and information directed toward predicting performance for specified designs. Introduction of central theme of functional reticulation into multiported elements. Systematic study of relations and interactions in terms of logical operations, transformations, matrices, ordinary and partial differential equations, signal flow graphs, block and bond diagrams, analogies, and computing systems. Lectures and problems work cover electrical, mechanical, fluid, thermal, chemical, nuclear and biological systems. (c) Emphasis on the synthesis and design of systems assembled from multiported primitives to accomplish specific tasks and functions. Particular attention given to the use of analog and digital computers as electronic models for studying alternative designs and modes of operation. Lectures and problems dealing with stochastic processes and variables in both frequency and time domains, and with stationary and nonstationary parameters. Substantial portion of time allotted to original studies on a team basis using available electronic computers. (c) Advanced engineering systems designs. Prerequisites: 300, 311, Mathematics 305b.

**520-9 (3,3,3) Reaction Engineering and Rate Processes.** (a) Chemical kinetics of homogeneous and heterogeneous reactions. Kinetic theories, mechanism and mathematical modeling. Interpretation of kinetic data. (b) Introduction of reactor design. Ideal reactors for batch and flow system. Design for multiple reactions. Temperature and pressure effects. Nonisothermal and nonadiabatic processes. (c) Nonideal flow, mathematical models of mixing. Fluids-solids reactions, optimum design and dynamic programming, scaleup factors. Laboratory. Prerequisite: 420.

**522-3 Advanced Topics in Operations Research.** Linear programming computational techniques and their applicability to particular operations research models. Topics include the approximation methods, forecasting and optimization techniques, constrained and bounded problems. Problem solution by use of a digital computer is emphasized. Prerequisite: 422.

**530-6 (3,3) Separation Processes and Equilibrium Operations.** (a) Phase equilibrium, multistage calculations in concurrent and counter-current operations, graphical methods, unsteady state stagewise operations. (b) Multi-component systems, solution chemistry, nonideality in phase equilibrium, rate separation processes, applications in processing industry. Prerequisite: consent of instructor.

**561-6 (3,3) Advanced Vibrations.** (a) Emphasis on nonlinear vibrations. Topics to include phase plane, nonlinear conservative systems, problem of rotating pendulum limit cycles of Poincaré, van der Pol equation, method of isoclines. (b) Liapounov stability criteria, bifurcation theory, perturbation methods, almost periodic oscillations, asymptotic methods for autonomous and non-autonomous systems. Prerequisite: Engineering 461, Mathematics 305a,b.

**570-2 to 6 Special Investigations.** (Same as Applied Science 570.)

**580-1 to 9 Seminar.** (Same as Applied Science 580.)

**599-1 to 9 Thesis.**



## Engineering Technology

**400-6 (3,3) Plastics Technology.** (a) Uses of plastic materials including laboratory research and techniques using various methods of fabrication and processing of plastic materials. (b) Properties of high polymers, stability, testing, rheology, mechanical, electrical, thermal, optical, chemical properties, speciality uses.

**425-2 to 8 Practicum in Technology.** (Same as Applied Science 425.)

**426-9 (3,3,3) Photogrammetry.** (a) Principles and practice of terrestrial and aerial photogrammetric mapping, including planning flights, control surveys, uncontrolled mosaics, radial-line control, simple stereoplotters, instruments, parallel distortions, graphical tilt determination, trimetrogon charting, and economics. (b) An advanced study of photogrammetric principles including controlled mosaics, rectification, graphical, mechanical, and analytical space orientation. Readings and reports from current technical literature. The principles of many photogrammetric plotters are studied together with economic relation of these instruments to density of field control, office methods, and personnel. (c) A study of the soil and rock areas of the United States and the patterns present in aerial photographs. Fundamental elements of soil patterns are analyzed to permit determination of materials present and their properties. Emphasis is placed on photo interpretation for engineering and regional planning purposes. Laboratory. Prerequisite: 363a or consent of instructor.

**430-2 to 8 Special Problems in Industry and Technology.** (Same as Applied Science 430.)

**437-9 (3,3,3) Industrial Electronics and Communications.** (a) Design of matching networks, impedance admittance locus diagrams, transmission line equations, transmission line charts, stub matching. (b) Electromagnetic fields in rectangular and circular wave guides, microwave techniques, antennas. (c) Unified treatment of various types of transmission systems with emphasis on the role of system bandwidth and noise in limiting the transmission of information. Prerequisite: 303.

**440-8 (4,4) Design and Analysis of Industrial Organizations and Productivity.** Case studies of industrial production methods and the process of industrial decision making; determinants of manpower utilization; transfer and processing of information; determinants of productivity levels. Prerequisite: consent of instructor.

**465-8 (4,4) Industrial Safety** (same as Industrial Education 465). (a) Basic fundamental principles of industrial accident prevention; significant accident statistics and costs; appraising safety performances, industrial plant hazards and safeguards; fire control fundamentals. (b) Effective industrial safety organizations, management and supervision; industry safety psychology; safety training programs; industrial hygiene programs; health safeguards; occupational diseases and other industrial hazards.

**506-2 to 12 Industrial Design Research.** Individual research. Prerequisite: 9 hours in industrial design or comparable experience in industry.

**507-4 Industrial Quality Control.** Study of quality control charts, techniques, procedures and methods. Theories of measurements, error, predictions, sampling, tests of significance, replacement models, and inventory servicing.

**526-9 (3,3,3) Surveying and Photogrammetry.** (a) Advanced engineering measurements. Measurement systems; analysis of errors and error propagation; adjustment of condition measurements by the method of least squares and other methods. Prerequisite: consent of instructor. (b) Geodesy. Study of the effect of curvature of the earth on surveying methods and calculations; figure of the earth; isostasy; magnetic properties of the earth; satellite geodesy; precise methods of surveying and leveling. (c) Land surveying and map projections. The theory of map projections; state coordinate systems; United States Public Land Systems; legal aspects of property boundaries; modern subdivision methods. Prerequisite: consent of instructor.

**527-9 (3,3,3) Transportation and Highway Engineering.** (a) Traffic engineering. City and highway traffic surveys and designs. Accidents, congestion, delay, speed, volume, density, parking, channelization, lighting, traffic control, and routing. Signs signals, and markings. Urban traffic consideration in city

planning Driver habit patterns and reactions. (b) Airport design. Problems encountered in planning, design, construction and maintenance of large airports. (c) Advanced Highway Engineering. Highway planning and economics, geometric design, bituminous materials. Soil stabilization. Prerequisite: consent of instructor.

**540-8 (4,4) Design of Man-Machine Systems.** The mathematical modeling of man-machine systems, optimizing of control mechanisms and of output, economic analysis for product choice, use of linear programming and queuing procedures in product forecast analysis.

**570-2 to 6 Special Investigations.** (Same as Applied Science 570.)

**580-1 to 9 Seminar.** (Same as Applied Science 580.)

**599-1 to 9 Thesis.**

## English

**400-4 Introduction to English Linguistics.** An introduction to the methods of descriptive linguistics as applied to English: the phonemics, morphemics, and syntax of English. Recommended for those preparing to teach English.

**402-4 Old English Literature in Translation.** A study of prose selections from Bede, Aelfric, and other writers, and of poetry from the simplest riddles and gnomic verses to the complex forms of the Caedmonic and Cynewulfian schools, the elegaic poems, and *Beowulf*. Emphasis is on the literary and cultural significance of works studied.

**403-4 History of the English Language.** A survey of the development of the language from Indo-European to modern English with special emphasis on Middle and Early Modern English changes.

**404-12 (4,4,4) Middle English Literature.** (a) Middle English literature excluding Chaucer; (b) Chaucer: early poems and *Troilus*; (c) Chaucer: *Canterbury Tales*. May be taken singly.

**405-8 (4,4) Descriptive Linguistics.** (a) Phonetics and phonemics, an analysis of language structure from phone to phoneme; (b) morphology and syntax, an analysis of language structure from morph to sentence. May be taken singly. Prerequisite: consent of instructor.

**406-4 English Phonology.** An analysis of spoken English, American and British. Prerequisites: English 400 or its equivalent.

**407-4 to 8 Articulatory Phonetics.** (a) A survey of general phonetics, with a concentration on articulatory methods; (b) laboratory work in articulatory phonetics: transcription, production, perception. May be taken singly. Prerequisites: English 400 or equivalent.

**412-16 (4,4,4,4) English Nondramatic Literature.** (a) 16th century, (b) 17th century, (c) The Augustan Age, 1660-1744, (d) The Age of Johnson, 1744-1798. May be taken singly.

**418-4 English Literature, 1885-1914.** Poetry, drama and fiction of the later Victorian and early modern period.

**420-8 (4,4) American Poetry.** (a) Trends in American poetry to 1900 with a critical analysis of the achievement of the important poets, (b) the important poets since 1900. May be taken singly.

**421-16 (4,4,4,4) English Poetry.** (a) Early Romantics: major emphasis on general background and on Blake, Coleridge, and Wordsworth; (b) later Romantics: emphasis on Byron, Shelley, and Keats, the minor figures; (c) Victorian poets: Tennyson, Browning, Arnold, and other poets of England, 1830-1900; (d) modern British poets. May be taken singly.

**425-4 Modern Continental Poetry.** Representative poems by the major 20th century poets of France, Italy, Germany, Spain, Russia, and Greece.

**431-12 (4,4,4) Major American Writers.** Significant writers of fiction and nonfictional prose from the Puritans to the 20th century: (a) 1620-1800, (b) 1800-1865, (c) 1865-1915. May be taken singly.

**438-4 Intellectual Backgrounds of American Literature.** The relationship of basic ideas in America to American literature.

**442-4 Romantic Prose.** Fiction of Austen Scott, Mary Shelley, Peacock, the Gothic novelists; prose of Lamb, Landor, Hazlitt, DeQuincey; criticism, journals and letters.

**443-4 Victorian Prose.** The chief writers of nonfictional prose from the late Romantics to 1880.



- 447-4 American Humor and Satire.** A consideration of the writers and forms of 19th and 20th century humor.
- 454-12 (4,4,4) English Fiction.** (a) 18th century: Defoe through Jane Austen, (b) Victorian novel: 1830-1880, (c) 20th century. May be taken singly.
- 456-4 Modern Continental Fiction.** Selected major works of European authors such as Mann, Silone, Camus, Kafka, Malraux, Hesse.
- 458-8 (4,4) American Fiction.** (a) The novel in America from its beginning to the early 20th century, (b) trends and techniques in the American novel and short story since 1914. May be taken singly.
- 460-16 (4,4,4,4) British Drama.** (a) Elizabethan drama: from the beginning of the drama in late Middle Ages through its flowering in such Elizabethan playwrights as Greene, Peele, Kyd, Marlowe, Heywood, Dekker, but excluding Shakespeare; (b) Jacobean drama: the Jacobean and Caroline playwrights: Jonson, Webster, Marston, Middleton, Beaumont and Fletcher, Massinger, Ford, Shirley; (c) Restoration and 18th century drama: after 1660, representative types of plays from Dryden to Sheridan; (d) Modern British drama. May be taken singly.
- 464-4 Modern Continental Drama.** The continental drama of Europe since 1870; representative plays of Scandinavia, Russia, Germany, France, Italy, Spain, and Portugal.
- 468-4 American Drama.** The rise of the theater in America; with readings of plays, chiefly modern.
- 471-8 (4,4) Shakespeare.** (a) The plays before 1600. (b) The plays of 1600 and later. Readings on the life of Shakespeare, the theater, and the acting companies. May be taken singly.
- 473-4 Milton.** Reading of *Paradise Lost*, *Paradise Regained*, *Samson Agonistes*, minor poems, major treatises.
- 485-4 Problems in the Teaching of English.** Aims, methods, materials, tests, programs, and other aspects of English instruction in the high school.
- 486-2 to 8 Workshop in High School English.** Intensive study in lectures, laboratory, and conferences, on the teaching of English in high school. Curriculum, materials, methods, aims.
- 487-2 to 8 Workshop in Junior High School English.** Intensive workshop study in lectures, laboratory, conferences on the teaching of English in junior high school. Curriculum, materials, methods, and aims. Directed by competent authorities in the field.
- 492-8 (4,4) Professional Writing II.**
- 494-4 Literature in Society.** An analysis of the structure and function of literature as a social institution.
- 495-8 (4,4) Literary Criticism.** (a) History of criticism: ideas and techniques from Aristotle to the end of the 19th century, (b) modern criticism: recent critics and critical attitudes, and practice in writing criticism.
- 497-12 (4,4,4) Senior Honors Seminars.** (a,b) Topics will vary yearly. (c) Honors readings. Enrollment restricted to undergraduates. Departmental approval required.
- 499-2 to 6 Readings in English.** For English majors only. Departmental approval required. No more than four hours may be taken in any one quarter.
- 500-2 Materials and Methods of Research in English.** The principal tools of literary scholarship and the more important studies and journals. Practice in the preparation of selective bibliographies and scholarly reports.
- 501-4 Old English Grammar.** The development of the forms, the grammar, and readings.
- 502-4 Beowulf.** Readings of the poem and study of its form, language, and history. Prerequisite: 501.
- 504-4 to 8 Advanced English Syntax.** Transformational-generative grammar. (a) introduction and theory, (b) advanced theory and application. Must be taken in a,b sequence. Prerequisite: 400 or equivalent.
- 505-4 Historical and Comparative Linguistics.** (a) A comparison of the structure of English with the structure of other languages; (b) theories and methods involved in the study of the history and prehistory of languages and language families. May be taken singly. Prerequisite: 400 or equivalent.
- 506-4 Old Norse.**
- 508-4 to 12 Studies in Chaucer.**
- 509-4 to 12 Studies in Middle English Literature.**
- 511-4 to 12 Studies in the Renaissance.**
- 513-4 to 12 Studies in 17th Century Literature.**



- 514-4 to 12 **Studies in Restoration and 18th Century Literature.**  
 518-4 to 12 **Studies in English Literature, 1885-1914.**  
 519-4 to 12 **Studies in Contemporary British Literature.**  
 520-4 to 12 **Studies in Romantic Writers.**  
 521-4 to 12 **Studies in Victorian Poetry.**  
 524-4 to 12 **Studies in the Metaphysical Poets.**  
 532-4 to 12 **Studies in American Transcendentalism.**  
 534-4 to 12 **Studies in Early 19th Century American Writers.**  
 536-4 to 12 **Studies in Later 19th Century American Writers.**  
 537-4 to 12 **Studies in 20th Century American Writers.**  
 538-4 to 12 **Problems in American Literature.**  
 540-2 to 8 **Studies in Linguistics.** Selected topics in theoretical and applied linguistics. Prerequisite: 400 or equivalent, consent of instructor.  
 543-4 to 12 **Studies in Victorian Nonfiction Prose.**  
 555-4 to 12 **Studies in the Victorian Novel.**  
 560-4 to 12 **Studies in Renaissance Drama.**  
 566-4 to 12 **Studies in Shakespeare.**  
 569-4 **Seminar in Special Problems of English as a Foreign Language.** Independent study in preparing and testing of instructional materials for the teaching of English as a foreign language. Restricted to English as a Foreign Language students.  
 579-4 to 16 **Studies in Modern Literature.**  
 580-4 **Traditional Themes.** Persistent themes and legends in literature—King Arthur, Faust, Utopia, and the like.  
 581-12 (4,4,4) **Problems in High School English.** (a) Composition. (b) Linguistics. (c) Literature.  
 585-2 **Teaching College Composition.** Objectives, methods, and materials for the course; observation; and practice under supervision.  
 588-9 (3,3,3) **Methods of Teaching English as a Foreign Language.** (a) Classroom techniques, (b) laboratory methods, (c) preparation of materials. Restricted to English as a Foreign Language students and must be taken in a,b,c sequence.  
 594-8 (4,4) **Studies in Literary Form and Symbolic Action.**  
 596-4 **Stylistics.** Defines style and its workings throughout literary history, applies the methods of modern analyses to literary works in English, shows how natural and artificial modes (genre and period definitions, metre, etc.) relate to literary artifacts and to the situation of the work of art vis à vis the civilization that engendered it.  
 597-2 to 6 **Readings in Linguistics.** Individual readings in linguistics under guidance. Prerequisite: 400 or equivalent; consent of department.  
 598-1 to 6 (1 to 3, 1 to 3) **Review of English and American Literature.** Restricted to master's degree students.  
 600-1 to 48 **Dissertation.**

## Finance

- 421-4 **Management of Business Finance.** The principal problems of managing the financial operation of an enterprise. Emphasis upon analysis and solutions of problems pertaining to policy decisions. Prerequisite: 320.  
 422-4 **Advanced Financial Management.** The development of ability to use sophisticated analytical tools by the discussion of case situations dealing primarily with capitalization, return on investment, and cost of capital. Prerequisite: 421.  
 428-4 **Life Insurance.** Particular attention given to policy forms and provisions, reserve and investment problems, company organization, legal aspects, taxation, and personal and business needs. Prerequisite: 327.  
 430-4 **Business Finance.** An introductory course combining both a description of the structure of business financing and an analysis of functional finance from a managerial viewpoint.  
 473-4 **Business in its Legal Environment.** Social and economic assessment of environmental factors influencing business policies and strategies. Emphasis is placed on legislation affecting competition and allocation of the firm's products and resources. Prerequisite: senior standing.  
 475-4 **Budgeting and Systems.** Aids in coordinating and directing business operation.

### Food and Nutrition

**420-3 Recent Developments in Nutrition.** Critical study of current scientific literature in nutrition. Prerequisite: 320 or equivalent. Offered alternate years.

**421-3 Recent Trends in Food.** Critical study of current scientific literature in food. Prerequisite: 320 or equivalent. Offered alternate years.

**481-2 to 4 Readings.** Supervised readings for qualified students. Prerequisites: 320 or consent of instructor and department chairman.

**490-3 Nutrition and Growth.** Lectures, readings, and discussion on nutrition in relation to human growth. Prerequisite: 420 or equivalent. Offered alternate years.

**500-4 Research Methods.** Study of methods employed in research in food and nutrition. The development of a research design selected on the basis of the interest and need of the student. Field trip. Prerequisites: 420, 421, or equivalent and statistics. Offered alternate years.

**515-1 to 6 Seminar.** Participation of staff and students in reporting and discussing research papers, research in progress, and current professional meetings. Required for all graduate majors in Food and Nutrition, one credit per quarter. Prerequisite: 420 or 421.

**520-3 Advanced Nutrition.** The biochemical and physiological basis of the metabolism of nutrients; current concepts. Prerequisite: 420 or equivalent. Offered alternate years.

**556-4 Advanced Experimental Foods.** Individual problems in food research and interpretation of pertinent literature. Prerequisite: 500. Offered alternate years.

**572-2 to 8 Special Problems.** For students recommended by their adviser and approved by the head of the department and the instructor in charge for independent work in directed study.

**599-5 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree. Registration with approval of instructor.

### Foreign Languages

The following courses do not fall within the normal pattern of courses leading to advanced degrees:

**161-0 French for Graduate Students.**

**161-0 German for Graduate Students.**

**161-0 Russian for Graduate Students.**

**161-0 Spanish for Graduate Students.**

The purpose of these courses is to help graduate students prepare for proficiency examination as requested by the Graduate School for the Doctor of Philosophy degree. No prerequisite. Students must register for these courses and are advised to take them as part of, and not in addition to, their graduate program.

#### FRENCH

**400-4 French Literature Between 1870 and 1914.** A survey of naturalism and the subsequent reactions to naturalism, chiefly in the drama and novel. Prerequisite: 310c.

**401-9 (3,3,3) French Literature of the 17th Century.** (a) Tragedy: Corneille and Racine. (b) Comedy: Moliere. (c) Non-dramatic Literature.

**403-9 (3,3,3) French Literature of the 18th Century.** (a) Theater. (b) Novel. (c) Philosophic and Didactic Literature.

**405-3 French Contemporary Novel.** A study of the novel from 1900 to the mid-20th century with detailed attention to Proust and Gide.

**406-3 French Poetry from 1850 to 1900.** The Parnassian and Symbolist Movements in French poetry.

**407-3 French Poetry Since 1900.**

**498-3 Honors Seminar.** Study of an author or a special topic. Restricted to undergraduates. Prerequisite: consent of department.

**499-4 Honors Essay.** Individual exploration of some question, author, or theme of significance within the field of French literature or language. Restricted to undergraduates. Prerequisite: 498 and consent of department.



**500-2 Seminar in Contemporary French Literature.** A study of the *nouveau roman* and anti-theater from 1950 to the present.

**501-2 to 6 Seminar on a Selected French Author.** Intensive study of one author. May be taken a maximum of 3 times.

**502-3 French Literature from La Chanson de Roland to Rabelais.**

**503-3 Rabelais and Montaigne.**

**504-3 La Pléiade.** The development of lyric poetry in the Renaissance.

**507-3 A Study of Romanticism in France.**

**510-4 19th Century Realism.** A study of the Parnassian school of poetry, of realism and its ultimate development into naturalism in the drama and novel. Prerequisite: consent of instructor.

**511-3 20th Century French Drama.**

**515-6 (3,3) Old French.** (a) Intensive reading and interpretation of the *Chanson de Roland*. (b) Reading of various Medieval works with linguistic analysis. Prerequisite: 410 or equivalent.

**520-4 Graduate Composition and Diction.** Composition based on study of contemporary French authors; individual work in pronunciation and diction determined by entrance tests.

**543-2 to 6 Research Problems.** Individual research on a literary or linguistic problem involving original investigation in areas not covered by seminars or thesis.

**599-2 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree.

#### GERMAN

**401-4 (2,2) Goethe's Faust.** (a) The Faust legend and early Faust books and plays; the genesis of Goethe's *Faust*: reading of Part I. (b) Reading of Part II; study of the symbolism used such as the blending of paganism with Christianity and ancient Greek culture with Germanic culture. Must be taken in a,b sequence.

**402-3 Advanced German Syntax.** Descriptive and contrastive study of German syntax, with particular attention to the needs of prospective teachers.

**403-3 German Ballads and Lyrics.** A selective study of the foremost examples of German balladry and lyric poetry, ranging from the poetry of Klopstock and Bürger to that of Hesse, Benn, etc. Lectures, recitations.

**404-4 Weimar and Its Aftermath.** German writings from the inception of the Weimar Republic to the end of World War II, with special reference to the correlation existing between literary expression and social, economic, and political conditions.

**406-3 The German Comedy.** Comic and satirical works in German Literature, with special emphasis on the "Lustspiel" since 1800; lectures, reports.

**407-2 Great German Plays of the 20th Century.** Study and selective readings of outstanding stage successes; lectures, reports.

**408-4 German Civilization.** Intensive study of the German speaking areas of the world, with emphasis on the anthropological and sociological aspects of their respective cultures (Austrian, German, Swiss, "Reichs-deutsch," etc.); lectures, reports.

**411-6 (3,3) Middle High German.** (a) Grammar, and selective readings in both MHG originals and NHG translations of such epics as the *Nibelungenlied* and *Gudrun*. (b) The courtly epic poetry of such authors as Wolfram von Eschenbach, Gottfried von Strassburg, Hartmann von Aue, the lyric poetry of Walther von der Vogelweide, and didactic prose.

**413-6 (3,3) German Linguistics.** (a) Introduction to Comparative German Linguistics tracing relationships among German languages on the basis of phonology, morphology, and syntax. (b) History of the German language: a survey of the development of German through the Old, Middle, and High German periods; lectures, readings, reports.

**497-1 to 2 Readings in 18th Century German Literature.** Departmental approval required.

**498-1 to 2 Readings in 19th Century German Literature.** Departmental approval required.

**499-1 to 2 Readings in 20th Century German Literature.** Departmental approval required.

**500-2 Seminar in Contemporary Literature.** Intensive study of the works of representative German authors, with special reference to the correlation



existing between literary expression and social, economic, and political conditions since 1900. Lectures, outside readings, reports.

**501-2 Seminar on a Selected German Author.** Intensive study of one author—his life, his work, and his place in the literary and cultural development of civilization. Lectures, outside readings, reports.

**506-2 Romanticism I.** Study of the forerunners of German Romanticism: Holderlin, Jean Paul; and the authors of Early Romanticism: the writers of the so-called "Berlin School," with special attention to their involvement and reaction to 18th century thought. Lectures, reports.

**507-2 Romanticism II.** Study of Patriotic Romanticism: Kleist, Arndt, Korner, Uhland, etc. and Late Romanticism: Eichendorff, Lenau, Grillparzer, Heine, Morike, etc. Lectures, reports.

**509-4 (2,2) Old High German.** (a) Phonology, morphology, etymology, and syntax. (b) Continued study of grammar and reading of Franconian, Bavarian, and Alemannic texts.

**512-3 19th Century German Novel.** German literature from the decline of Romanticism to the end of the century. A study of trends and representative works of such authors as Keller, Fontane, Raabe, etc. Lectures, reports.

**513-3 20th Century German Novel.** Continuation of 512. Study of representative writers of expressionism, "Neue Sachlichkeit," etc. Lectures, reports.

**514-3 Seminar in Folklore.** Study of German folk literature, with emphasis on folk tales (such as Grimms' Household Tales, regional sagas, etc.), chapbooks (such as Dr. Faust, Till Eulenspiegel, etc.), folksongs (Des Knaben Wunderhorn), and folk drama. Lectures, reports.

**533-3 Gothic.** Historical setting and significance of Gothic; phonology, morphology and syntax; selected readings from Wulfila.

**543-2 to 6 Research Problems.** Individual research on a literary or linguistic problem involving original investigation in areas not covered by seminars or thesis.

**544-12 NDEA Summer Institute for Teachers.** Summer Institute for Teachers of German, conducted in West Germany.

**599-2 to 9 Thesis.**

#### RUSSIAN

**401-8 (4,4) The Russian Novel in the Nineteenth Century.** Should be taken in a,b sequence.

**411-8 (4,4) Introduction to Russian Classical Literature.** Gogol, Pushkin, Turgenyev, Tolstoy. Should be taken in a,b sequence.

**413-4 Russian Drama in the Nineteenth Century.** Griboyedov, Gogol, Pushkin, and minor dramatists.

**414-3 Russian Poetry from Zhukovsky to 1920.** A study of Russian Poetry from Sentimentalism through Symbolism.

**425-3 Soviet Literature Since 1917.** A study of satirists and writers of everyday life. Constructivism and followers; Soviet literary criticism. Lectures, readings, and reports.

**452-4 Advanced Composition and Conversation.** Oral and written composition of a practical nature for advanced students; emphasis on study of idiomatic expressions and current usage.

**500-2 Seminar in Contemporary Russian Literature.** Intensive study of the works of representative Russian authors, with special reference to the correlation existing between literary expression and social, economic, and political conditions since the Revolution. Lectures, outside readings, reports are required.

**501-2 Seminar on a Selected Russian Author.** Intensive study of one author, his life, his work, and his place in the literary and cultural development of civilization.

**503-2 Seminar on 19th Century Russian Literature.** Intensive study of the modern Russian novel as an expression of social and cultural movements. Outside readings and class discussions.

**509-3 Russian Literature Through the 17th Century.** A study of early Russian literature with emphasis on literature of the Kievan period. Analysis of texts and reports.

**510-3 Russian Literature of the 18th Century.** The Baroque period, classicism and sentimentalism. Emphasis on the classical period of the 18th century. Analysis of texts and reports.

**514-6 (2,2,2) History of the Russian Language.** A survey of the phonological, morphological, and syntactical changes from the period of the common Slavic to the present Russian literary language.

**520-4 Russian Linguistic Structure.** A structural analysis of present-day Russian with special attention to Russian syntax. Free composition on Russian authors.

**543-2 to 6 Research Problems.** Individual research on a literary or linguistic problem involving original investigation in areas not covered by seminars or thesis.

**599-2 to 9 Thesis.**

#### SPANISH (Iberian)

**401-3, Spanish Novel of the 19th Century.** Study of representative novels of Fernán Caballero, Valera, Pereda, Galdos, etc.

**402-3 Spanish Drama of the 18th and 19th Centuries.** Reading of representative plays of the chief dramatists from Moratin to the Generation of 1898.

**403-3 Spanish Poetry.** General survey of Spanish poetry from its beginnings to 1900.

**404-6 (3,3) Spanish Literature of the Twentieth Century.** (a) The Generation of 1898. (b) Contemporary Novel and Essay. Main trends of the Spanish novel and essay since 1900.

**415-3 Spanish Phonetics.** Analysis of the sounds of Spanish and their manner of production; intonation; levels of speech; oral practice.

**440-6 (3,3) The Golden Age: Drama.** Plays of Lope de Vega, Calderón, Tirso de Molina, Ruiz de Alarcón, and others.

**445-4 Cervantes.** Don Quixote; Other works assigned as collateral readings.

**475-3 to 12 General Topics in Spanish.** Selected topics in literature or linguistics of special interest, for major concentrations in Spanish.

**501-2 to 6 (2 per quarter) Seminar on a Selected Spanish Author.** Study of one author—his life, his works, and his relationships to the literary and social currents of his time.

**505-3 The Picaresque Novel.** Study of the *Lazarillo*, with collateral readings of other masterpieces of this genre.

**506-3 The Renaissance.** Literature of the Renaissance in Spain, including the drama, the novel, the lyric poetry, and the histories of the Indies.

**515-6 (3,3) Old Spanish.** (a) Intensive reading and interpretation of the *Poema de Mio Cid*. (b) Reading of various medieval works with linguistic analysis. Prerequisite: 410 or equivalent.

**520-3 Seminar in Syntax.** Stylistics and grammatical analysis.

**525-3 The Spanish Ballads.** The romance studied as a part of the literature and folklore of Spain and the New World.

**543-2 to 6 Research Problems.** Individual research on a literary or linguistic problem involving original investigation in areas not covered by seminars or thesis.

**560-4 Spanish and Latin American Bibliography.** Bibliography and research methods in Spanish and Spanish American culture. Introduction to the use of the chief reference works in the humanities and social sciences as they deal with Spain and Spanish America.

**575-3 to 12 Advanced Topics in Spanish.** Selected topics in literature or linguistics of special interest for major concentrations in Spanish.

**599-2 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree.

#### SPANISH (American)

**421-3 Survey of Modernism in Spanish American Poetry.** Study of its origins, characteristics and achievements.

**422-3 Contemporary Spanish American Poetry.** Spanish American poetry since modernism.

**523-3 to 4 The Mexican Novel of the 20th Century.** Emphasis on fiction dealing with the Revolution and related social problems.

**424-3 to 4 Gaucho Literature.** Study of the Gaucho as a social class and of the types of literature developed to portray and symbolize his way of life, attitudes and values.

**426-3 The Mexican Short Story.** Survey of the Mexican short story from pre-Conquest to the present.



- 427-3 Spanish American Drama.** Study of representative works of Florencio Sánchez, Rodolfo Usigli, Armando Mooock, Samuel Eichelbaum, Xavier Villarrutia, and others.
- 475-3 to 12 General Topics in Spanish.** (See Spanish—Iberian).
- 478-4 Seminar in Latin American Thought.** (See Philosophy 478.)
- 500-2 to 6 (2 per quarter) Seminar in Latin American Fiction.** The works of a specific novelist or group of novels on a similar theme studied as a reflection of social and cultural conditions in a country or geographical area.
- 535-3 Mexican Essayists of the 19th Century.** Currents of Mexican thought in the 19th century.
- 538-3 Seminar on Spanish American Poetry.** Study of the works of a single poet, of a group of poets or of literary trends or movements such as *creacionismo*, *ultraismo*, etc.
- 541-3 Seminar on Spanish American Literary Criticism.** Significant documents of literary criticism from Independence to the present.
- 543-2 to 6 Research Problems.** (See Spanish—Iberian.)
- 560-4 Spanish and Latin American Bibliography.** (See Spanish—Iberian.)
- 575-3 to 12 Advanced Topics in Spanish.** (See Spanish—Iberian).
- 599-2 to 9 Thesis.**

#### ROMANCE PHILOLOGY

- 410-4 Romance Philology I.** Survey of phonology, morphology, and syntax changes in Romance languages in general; special attention to the developments in French and Spanish for majors in these fields.
- 514-4 Romance Philology II.** Studies in syntax of Old French and Old Spanish. Prerequisite: 410 or equivalent.
- 516-4 Arthurian Romance.** Readings in the Arthurian Romances of the student's major interest (French or Spanish) with reference to the genre as a whole. Prerequisite: 410 or equivalent.

#### Forestry

- 401-3 Advanced Forest Mensuration.** Theory and practical problems in biometrics to obtain estimates of forest populations. Use of computers and other advanced techniques. Prerequisite: 363a,b or equivalent.
- 410-3 Forest Management for Wildlife.** Interrelations between forest practices and game. Forest protection from mammals and birds. Emphasis is on treatment of the forest. Prerequisite: Zoology 463, forestry major, or consent of instructor.
- 420-4 Advanced Wood Technology.** The study of wood as an industrial and structural material; the botanical, physical, chemical, and mechanical properties are discussed. The advantages and disadvantages of wood as a raw material are analyzed. Prerequisite: 320, Mathematics 111a,b or equivalent.
- 427-3 Mineral Nutrition of Plants.**
- 440-4 Ecology of Grasses and Grasslands.** (Same as Botany 440.) Structure, analysis and dynamics of grassland communities; structure and growth of individual species. Prerequisite: GSA 340 or consent of instructor.
- 450-4 Forest Park Management.** Fundamentals in the management and administration of parks and recreation areas, at the metropolitan state and federal level. Includes purpose, objectives, criteria for selection, policy, management practices, and problems in providing outdoor recreation in a natural environment. Prerequisites: 350a,b or consent of instructor.
- 451-7 (3,4) Forest Park Plans.** Fundamental and applied principles and elements involved in site, master, and comprehensive planning for outdoor recreation at the state, metropolitan, and federal level. Prerequisites: 350a,b or consent of instructor.
- 465-2 Forestry Field Studies.** An extended trip to study forest conditions and silviculture in different forest regions of the United States. Cost shared by students. Prerequisites: 330, 363a, 365a.
- 466-3 Forest Watershed Management.** Effects of treatment of forested watersheds on quality and quantity of water yield. Consideration of alternative in water use and flood control. Prerequisites: 301, GSA 330, or consent of instructor.
- 470-8 (4,4) Economics of Forestry.** (a) Introduction to forest economics;



forestry production and investment. Prerequisite: GSB 211a. (b) Forestry marketing, macro-economics and planning. Prerequisite: 470a or consent of instructor.

**471-4 Land Resource Economics.** (Same as Agricultural Industries 471 and Economics 471.) The use of land as an economic variable in production of goods and services; land markets; group versus individual conflicts; elementary land resources planning techniques. Prerequisite: 470a or Economics 440 or Agricultural Industries 350.

**520a-1 to 6 Readings in Forestry or Forest Recreation.** Intensive consideration is given to current practices and problems in forestry. Prerequisite: consent of instructor.

**520b-1 to 6 Readings in Resource Economics.** (Same as Economics 502 or Agricultural Industries 520b.) Directed readings in the field of resource economics. Prerequisites: consent of instructor and 375 or equivalent.

**520c-1 to 6 Readings in Forest Products or Wood Service.** Advanced study of the techniques of manufacture in the wood and fiber using industries. Also, advanced study of physical, mechanical and chemical properties of wood as a material. Prerequisite: consent of instructor.

**570-4 Principles of Research.** Research philosophy, approaches to research; theory, hypotheses, inference and prediction; problem identification, project development and organization; methods of data collection, analysis and presentation; drawing conclusions and organizing results. Prerequisite: 4 hours in statistical methods or consent of instructor.

**575-1 to 6 Research.** Directed research in selected fields of forestry.

**581-1 to 6 Advanced Forestry Seminar.** Study and discussion of contemporary forestry problems. Prerequisite: consent of instructor.

**599-2 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree.

## Geography

**400-3 Geographic Methods.** Designed to introduce the geographic methods of integrating physical, economic, and cultural elements in the study of areas with the emphasis placed on problem situations. Cartographic and quantitative techniques will be emphasized. Prerequisites: GSB 101a, 302, 304, 306. **402-10 (4,3,3) Advanced Physical Geography I.** Deals with one or more of the following land forms, climate, soil, and water; depending on, and varying with, interests of the instructors. Thus, a student may register more than one time. Emphasis will be directed at familiarizing the student with techniques of analysis, and at developing concepts and principles that underlie understanding of the phenomena and their geographic significance. Prerequisite: 302 or consent of instructor.

**403-7 (4,3) Advanced Physical Geography II.** Content drawn from same broad range of topics as 402. To be alternated with 402 to enable student to specialize further in physical geography. Prerequisite: 302 or consent of instructor.

**404-10 (4,3,3) Advanced Economic Geography I.** Deals with one or more of the following: transportation, manufacturing, agriculture, resources, trade and urban geography; depending on, and varying with, interests of instructors. Thus, a student may register more than one time. Emphasis will be directed at familiarizing the student with techniques of analysis, and at developing concepts and principles that underlie understanding of the phenomena and their geographic significance. Prerequisite: 302 or consent of instructor.

**405-7 (4,3) Advanced Economic Geography II.** Content drawn from same broad range of topics as 404. To be alternated with 404 to enable student to specialize further in economic geography. Prerequisite: 302 or consent of instructor.

**406-10 (4,3,3) Advanced Cultural Geography I.** Deals with one or more of the following: population, settlement, ethnic characteristics, political factors; depending on, and varying with, interests of the instructors. Thus, a student may register more than one time. Emphasis will be directed at familiarizing the student with techniques of analysis, and at developing concepts and principles that underlie understanding of the phenomena and their geographic significance. Prerequisite: 306.

**407-7 (4,3) Advanced Cultural Geography II.** Content drawn from same

broad range of topics as 406. To be alternated with 406 to enable student to specialize further in cultural geography. Prerequisite: 302 or consent of instructor.

**410-8 (4,4) Advanced Geographic Techniques.** Geographic applications of cartographic and quantitative research techniques. Prerequisite: 310 or consent of instructor.

**416-8 (4,4) Cartography.** Instruction and practice in the techniques of map-making and problems in map reproduction. Laboratory. Prerequisite: 310.

**424-2 to 12 Regional Problems in Conservation.**

**440-2 to 6 Reading for Majors.** Supervised readings in selected subjects. Prerequisite: advanced standing.

**443-4 Teaching of Geography.** Presentation and evaluation of methods of teaching geography. Emphasis upon geographic literature, illustrative materials, and teaching devices suitable to particular age levels. Prerequisite: 300.

**461-7 (4,3) Regional Geography: Anglo-America.** Deals geographically with present-day United States and Canada. (a) A general survey of the area, open to non-majors. (b) Investigates specific topics in depth, for majors.

**462-7 (4,3) Advanced Regional Geography: Europe.** See 461.

**463-7 (4,3) Advanced Regional Geography: Mediterranean Lands and South-western Asia.** See 461.

**464-7 (4,3) Advanced Regional Geography: Soviet World.** See 461.

**465-7 (4,3) Advanced Regional Geography: Sub-Saharan Africa.** See 461.

**466-7 (4,3) Advanced Regional Geography: Eastern and Southern Asia.** See 461.

**467-7 (4,3) Advanced Regional Geography: Latin America.** See 461.

**468-7 (4,3) Advanced Regional Geography: Oceania.** See 461.

**470-12 (4,4,4) Urban Planning.** (Same as Government 470.) (a) Planning concepts and methods. (b) Planning administration and the planning function in public process. (c) Field problems.

**471-8 (4,4) Regional Planning.** Examination of the viewpoint, methods, and techniques of regional planning. Prerequisite: consent of instructor.

**480-4 Workshop in the Teaching of Geography.** Gives the geographic approach to man in space. Skills and techniques in the use of maps, globes, pictures, statistics and graphics, and reading the landscape and literature will be acquired.

**490-1 to 16 Tutorial in Geography.** Individual and small group conferences with staff members to examine geographic concepts. Prerequisite: Institute status.

**500-4 Geographic Techniques I.** Emphasizes field and quantitative techniques used in geography.

**501-4 Geographic Techniques II.** Emphasizes the conceptual framework of geography, library and bibliographic techniques, and geographic writing.

**505-8 (2,2,2,2) Pro-Seminar in Geography.** Discussion of basic issues and development of professional perspective in (a) Physical, (b) Economic, (c) Cultural, (d) Geographic Thought. Taught by the entire resident staff.

**511-4 Philosophy of Geography.** The nature of geography. Current trends in the field, present-day geographers, and schools of thought. Geography's place among the disciplines.

**514-2 Teaching of College Geography.**

**515-4 to 6 Field Course.** Designed to give actual experience in the field. Under guidance of staff members students will gather data and work toward the solution of selected field problems in one particular region of the world. This course will not be offered on campus, but will be in a field camp location suited to the study of selected problems. Prerequisite: consent of instructor.

**520-2 to 12 Seminar in Physical Geography.**

**521-2 to 12 Seminar in Economic Geography.**

**522-2 to 12 Seminar in Regional Geography.**

**523-4 to 12 Seminar in Cartography.**

**524-2 to 8 Seminar in Cultural Geography.**

**527-2 to 8 Seminar in Urban and Regional Planning.**

**530-2 to 10 Independent Studies in Geography.**

**540a-2 to 36 Research in Physical Geography.**

**540b-2 to 36 Research in Economic Geography.**

**540c-2 to 36 Research in Regional Geography.**

**540d-2 to 36 Research in Cultural Geography.**

**599-9 Thesis.** Minimum of 5 hours to be counted toward a master's degree.



**600-1 to 48 Dissertation.** Minimum of 36 hours to be earned for the Doctor or Philosophy degree.

## Geology

**410-4 Stratigraphy and Sedimentation.** The characteristic features of sedimentary rocks and their processes of origin; the classification of stratigraphic units, methods of correlation, and paleogeologic reconstruction. Laboratory. Prerequisites: 220, 221, 310a,b, 315, and 425a,b or consent of instructor.

**411-3 Mineralogy III.** Elementary crystallography. Applications of physical principles to mineralogical problems.

**414-5 Paleobotany.** (See Botany 414.)

**415-3 Optical Mineralogy.** The optical properties of minerals and the use of the petrographic microscope for identification of crystals by the immersion method and by thin section. Laboratory. Prerequisites: 310, Physics 208.

**416-4 X-Ray Crystallography.** Introduction to the study, measurement, and identification of unknown crystalline materials by X-ray diffraction techniques (especially the Debye-Scherrer methods). Upon request, non-geology majors may work with unknowns from their own fields of study. Prerequisites: 310, Mathematics 150.

**420-8 (4,4) Geology of Petroleum.** The geological occurrence of petroleum, including origin, migration, and accumulation; a survey of exploration methods and production problems and techniques. Laboratory study applies geological knowledge to the search for and production of petroleum. Laboratory. Prerequisites: 221, 302.

**425-8 (4,4) Invertebrate Paleontology.** Principles of paleontology and a survey of important invertebrate phyla and their fossil representatives. Also study of paleoecology. Laboratory. Must be taken in a,b sequence. Prerequisite: 221 or GSA 201.

**430-4 Physiographic Provinces of North America.** Gives the student an intelligent appreciation of the evolution of land forms in the physiographic provinces of North America and explains the surface features in a landscape. Prerequisite: 220.

**435-12 (4,4,4) Hydrogeology.** Introduces the geological factors in the origin, distribution, movement, and chemistry of natural water of the earth. Prerequisites: 315, Mathematics 150b, and Physics 207.

**445-3 (1,1,1) Seminar in Geology.** Study of major problems in Geology. Primarily student discussion based on library work. Prerequisite: senior standing.

**450-12 (9,3) Field Geology.** (a) Field mapping including problems in stratigraphy, structure, paleontology, physiography, and economic geology. Requires a written geologic report. Consult the department for dates, cost and equipment. (b) Advanced field problems. Prerequisite: 302, 315.

**460-4 Geological Data Processing.** Two lecture and two laboratory periods each week for instruction in computer application to geological problems including the processing and programming of data and the interpretation and evaluation of results. Prerequisites: Engineering 222 or Mathematics 225.

**510-11 (4,4,3) Stratigraphy.** (a) Advanced sedimentation. Physical aspects of modern sediments are examined in detail and related to the geometry of the depositional body and its environment. (b) Stratigraphic methods. Stratigraphic correlations are explained using lithologic, paleontologic, electrical, magnetic, radio active and seismic data. (c) Regional stratigraphy of North America. Investigates the established stratigraphic subdivisions of North American geology. Prerequisite: 425.

**515-12 (4,4,4) Mineral Deposits.** (principles, metallics, nonmetallics) Principles of mineral deposition and genesis, and the origins and geologic settings of the important mineral deposits of the world. Laboratory. Prerequisites: 302, 310.

**520-12 (4,4,4) Advanced Petrology.** (a) Igneous Petrology. Physical chemistry, petrographic classification, and genetic relationships of the igneous rocks. (b) Metamorphic Petrology. Physical chemistry, petrographic classification, and genetic relationships of the metamorphic rocks. (c) Sedimentary Petrology. Petrographic classification and origin of sedimentary rocks. Prerequisites: 310, 415, or equivalent.

**528-3 to 9 Micropaleontology.** Structure, classification, paleoecology, stratigraphic distribution, and evolution of microfossils. Laboratory work in tech-



niques of collection, preparation, and study of microfossils. Identification and use of microfossils in solving stratigraphic problems. Preparation for research in micropaleontology. (a) Conodonts and ostracodes. (b) Foraminifera. (c) Lesser-known groups, invertebrates and algae, pollen and spores. Prerequisite: 425.

**540-1 to 9 Advanced Studies.**

**541-1 to 9 Research.**

**599-2 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree.

## **Government**

**406-4 The American Chief Executive: President and Governor.** A study of the origin and background of the presidency and the governorship, qualifications, nomination and election, succession and removal, the organization of the executive branch, and the powers and functions of the president and governor. Prerequisites: 231, 232 (C); GSB 203a (E).

**410-3 Labor and Politics.** A political history of the American labor movement from its early century origins to the present. Attention given to the political philosophy and practice of labor unions. Prerequisite: 231.

**415-9 (3,3,3) Political Behavior.** An analysis of the nature of public opinion and methods of influencing political behavior. Major attention given to studying the basic psychological attitudes and behavior. Prerequisite: 231.

**420-3 Pressure Groups and Politics.** An analysis of interest groups and their techniques of political propaganda. Prerequisite: 231.

**430-3 Government and National Security.** A study of the organization of government for national security; the historical and current developments in civil-military relations; the legal status of over-seas military aid programs; international defense programs; and the problem of disarmament. Prerequisite: 231 or consent of instructor.

**432-2 Government and Natural Resources.** A study of the administrative and policy problems in the development of multiple purpose conservation programs by the national government. Prerequisite: 231 or consent of instructor.

**434-3 Government and Agriculture.** An historical and contemporary survey of the role of agriculture in politics, the major and minor farm parties and pressure groups, the elements of the current "farm problem," and the influence of agriculture in public agencies and the formation of public policy. Prerequisite: 231.

**435-4 Government and Business.** An historical study, with contemporary emphasis upon relations between government and economic institutions. Prerequisite: 231 or consent of instructor.

**436-3 Government and Labor.** (See Economics 436.)

**438-4 Social Welfare Legislation.** The Social Security Act and other legislation of major significance for the welfare and maintenance of the family, the handicapped, children, and other special groups. Their relationship of the legal structure of federal, state, county, township, and municipal welfare facilities and institutions with indications of economic and social consequences. Prerequisite: consent of instructor.

**440-4 Public Personnel Administration.** An analysis of some of the central problems encountered by the government executive in recruiting, maintaining, and developing personnel, such as political neutrality, leadership and motivation, career development, security regulations, and the role of personnel in policy planning and execution. Prerequisite: GSB 203a, 360.

**441-4 Philosophy of Politics.** (See Philosophy 441.)

**450-12 (4,4,4) Latin American Governments.** The countries covered are (a) those of the Caribbean area; (b) those of South America; (c) this section deals with the government relations between the United States and the Latin American nations. Prerequisite: 200, GSB 203a.

**451-4 International Politics of Europe.** Nation-state system in Europe; foreign politics of major states; nationalism as a source of conflict, Soviet expansionism; and progress toward European security and unification.

**452-4 Governments and Politics of Sub-Sahara Africa.** A study of the governments and politics of the former and present British and French territories: Ghana, Nigeria, Kenya, Guinea, Congo, Senegal, etc. Prerequisite: GSB 390 or consent of instructor.

**453-12 (4,4,4) Soviet Russia.** An intensive study and research exercise in communist government and politics. Prerequisite: 200, GSB 390, or consent of instructor.

**454-8 Development of German Democracy.** Involves a summer's residence in Germany with classroom material supplemented by lectures by German professors and government officials. Prerequisite: consent of instructor.

**455-4 Major Governments of Western and Central Europe.** A comparative study of the political systems of the major countries of Western and central Europe. Prerequisite: GSB 390 or consent of instructor.

**456-4 Great Britain and the British Empire.** A survey of the governmental institutions and practices within the British Empire, with particular attention to the political systems of Australia, Canada, and South Africa. (The governments of India and Pakistan are treated in 458.) Prerequisite: GSB 390 or consent of instructor.

**457-8 (4,4) Government and Politics in the Near and Middle East.** Iran, Iraq, Syria, Lebanon, Egypt, Jordan, Saudi Arabia, etc. Prerequisite: GSB 390 or consent of instructor.

**458-12 (4,4,4) Government and Politics of Asia.** (a) Burma, Thailand, Malaya, Indochina, Indonesia, Philippines. (b) China, Japan, Korea, Formosa. (c) India, Pakistan, Ceylon. Prerequisite: GSB 390 or consent of instructor.

**459-4 Politics of Developing Areas.** A survey, theoretical and descriptive, of the impact upon politics of the process of development, and the role of the governmental system in the direction and control of development. Prerequisite: GSB 390 or consent of instructor.

**461-4 Organizational Theory and Public Administration.** Analysis of various theoretical approaches to public administration with emphasis on recent American literature in this field. Prerequisite: 360 or consent of instructor.

**462-3 Intergovernmental Relations.** A course dealing with the interrelationships between the various levels of government in the United States. Prerequisite: 231 or GSB 211b.

**463-3 Government, Social, and Economic Policy.** Exploration of contemporary agencies of policy determination within the national government; attention to methods and devices utilized to effectuate national social and economic policy within the federal system; appraisal of historical developments, trends, and results as they affect American governmental, constitutional, and political philosophy, public administration, and the general welfare. Prerequisite: GSB 211c consent of instructor.

**464-3 Regulatory Administration.** A study of the work of the major regulatory commissions of the national government. Prerequisite: 360 or consent of instructor.

**466-3 State Government and Administration.** Leading problems of government and administration of American states. Prerequisite: 232.

**467-4 Municipal Government and Administration.** Development and functioning of city government in the U.S. Prerequisite: 232.

**469-3 Administration of State and Local Finance.** An examination of the administrative problems connected with local and state revenues and expenditures in the U.S. Prerequisite: 232.

**470 Urban Planning.** (See Geography 470.)

**471-4 The Organization and Administration of American Foreign Policy.** An advanced course dealing with the organizational and administrative aspects of American foreign policy. Prerequisite: 243 or 371.

**472-4 International Organization.** Development and organization of international governmental and administrative systems, with emphasis on the United Nations. Prerequisite: GSB 303.

**475-8 (4,4) International Law.** Rules and practices governing the nations in their relations in peace and war. Prerequisite: GSB 303.

**478-4 International Politics.** A study of the interplay of political forces in the international community. Particular emphasis will be placed on war-time diplomacy, peace treaties, the alignments and conflicts of power in the post-war period. Prerequisite: GSB 303 or consent of instructor.

**480-4 The Pacific and the Far East.** Political and strategic problems in this area. Prerequisite: GSB 303 or History 370.

**484-8 (4,4) History of Western Political Theories.** (Same as Philosophy 484) (a) Outstanding political theories of the ancient and medieval periods, including theories of Plato, Aristotle, Cicero, St. Augustine, and Thomas Aquinas.



(b) Important political theories from the Renaissance to the end of the 18th Century, including the theories of Machiavelli, Hobbes, Rousseau, Locke, and Burke.

**487-6 (3,3) American Political Ideas.** An historical study of the political ideas of leading American statesmen and publicists, and their resulting influence upon our governmental system. Prerequisite: 305 or GSB 385.

**488-9 (3,3,3) Recent Political Theory.** (a) The outstanding Anglo-American liberal political theorists from John Stuart Mill to the present. (b) The outstanding "scientific" political theorists from Karl Marx to the present. (c) The outstanding idealistic and nationalistic political theorists from Hegel to the present. Prerequisite: GSB 385 or 390.

**495-8 (4,4) Constitutional Law.** (a) Constitutional law of the United States with emphasis upon cases dealing with the framework of our federal system. (b) American liberties. Prerequisite: 231.

**497-4 Administrative Law.** Law as it affects public officials in carrying out the rights, duties, and necessary functions of the public office. Prerequisite: 360.

**498-4 Jurisprudence.** (Theories of Law.) Major schools in legal thinking. Positive law and natural law. Idea of justice and concept of natural rights. Prerequisite: 231.

**499-4 Scope and Method of Government.** Practical training in research and writing techniques in the field of government. Bibliographical materials, footnotes, use of law library facilities, and government documents. Required of all beginning graduate students.

**500-3 Methods of Empirical Research.** The techniques, analysis, and problems of empirical research are studied. The method given greatest coverage is the sample survey. Prerequisite: 499 or consent of instructor.

**501-2 to 9 Seminar in Contemporary Legislation.** Prerequisite: 340 or consent of instructor.

**502-2 to 9 Seminar in Governmental Problems.** Prerequisite: consent of instructor.

**503-2 to 9 Seminar in Pressure Groups.** Prerequisite: 420 or consent of instructor.

**504-4 Judicial Process.** An examination of the literature on such topics as judicial selection, the impact of court decisions, court procedure, and the factors affecting the decision-making behavior of judges. Prerequisite: 495 or equivalent or consent of instructor.

**505-2 to 9 Seminar in Political Parties.** Prerequisites: 380, 420, or consent of instructor.

**506-2 to 9 Seminar in Political Behavior.** Prerequisite: 415 or consent of instructor.

**508-2 to 9 Seminar in International Relations.** Prerequisites: 370, 472 or 475, or consent of instructor.

**509-2 to 9 Seminar in International Organization.** Prerequisite: 472 or consent of instructor.

**510-2 to 9 Seminar in State Government.** Prerequisite: 466 or consent of instructor.

**511-2 to 9 Seminar in Local Government.** Prerequisite: 467 or consent of instructor.

**512-2 to 9 Seminar in Public Administration.** Prerequisite: 360 or consent of instructor.

**513-2 to 9 Seminar in Constitutional Law.** Prerequisite: 395 or consent of instructor.

**515-2 to 9 Seminar in Comparative Government.**

**516-2 to 9 Seminar in Municipal Administration.** Prerequisite: 467 or consent of instructor.

**517-2 to 9 Seminar in Problems in Political Theory.** Prerequisite: 360 or consent of instructor.

**520-2 to 9 Seminar in American Foreign Policy.** Prerequisite: 371 or consent of instructor.

**521-1 to 12 Readings.** Supervised readings in selected subjects. Not more than 6 hours may apply toward the master's degree. Prerequisite: consent of instructor.

**525-2 to 9 Seminar in International Law.** Prerequisite: 475 or consent of instructor.

**530-4 to 12 Internship in Public Affairs.** Field work in the office of a governmental agency; city, county, state, national, or international. Under certain circumstances it might be in the office of a political party organization or in



that of some organized pressure group. The type of internship and the place and organization in which it is taken must be mutually satisfactory to the student and the department. A paper in which the student correlates his academic knowledge with his practical experience is required. Prerequisite: consent of department.

**582-4 Criminal Law and the Correctional Process.** A review of the basic principles and administration of the criminal law and the legal foundations of the juvenile court, the sentencing process, parole and probation, and the changing concept of mental competency. Prerequisite: consent of instructor.

**584-4 Seminar in Correctional Program Management.** A critical analysis of management influence on treatment programs in various correctional settings. Field trips, observation, and research in addition to readings. Prerequisite: consent of instructor.

**595-2 to 12 Individual Research.** Selection, investigation, and writing of a research topic under the personal supervision of a member of the departmental graduate staff. Prerequisite: 499 or consent of instructor.

**599-2 to 9 Thesis.** Prerequisite: 499 or consent of instructor. Minimum of 5 hours to be counted toward a degree.

**600-1 to 48 Dissertation.** Minimum of 36 hours to be earned for the Doctor of Philosophy degree.

### Guidance and Educational Psychology

**412-4 Mental Hygiene.** A survey of principles concerning factors and conditions in personal life that tend to facilitate or deter mental health. Mental health viewed as living creatively in an atmosphere of satisfactory inter-personal relations. Prerequisite: 305.

**422-12 (4,4,4) Educational Measurement and Statistics.** (a) Study of the theory and techniques of measurement. Special attention to the construction and use of teacher-made tests. (b) The statistics needed by teachers for classroom use, the reading of educational literature, and informal educational research. (c) Study of standardized tests and other measuring devices to reveal individual and group characteristics. Emphasizes application and interpretation for counseling, education, and research purposes. Prerequisite: 305.

**426-4 Individual Inventory.** Principles and procedures for studying individual pupils and their problems for guidance purposes. Emphasis on interview, observation, ratings, case study, cumulative record, etc. Prerequisites: 422b, 442.

**442-4 Basic Principles of Guidance.** Introductory course on student personnel services. Survey of philosophy, principles, and organization of guidance services. Prerequisite: 305.

**475-4 Implementation of Guidance Principles in the Public Schools.**

**481-1 to 6 Seminar.** Conducted by staff members and/or distinguished guest lecturers on pertinent topics. Prerequisite: 305, consent of instructor.

**485-4 to 9 Workshop in Educational Utilization of Community Resources.**

**501-2 to 6 Special Research Problems.** For majors in Guidance. Formulating, investigating, and reporting on a problem in the area of guidance. Prerequisites: advanced standing and consent of department.

**502-4 Measurement and Evaluation of Products and Procedures.**

**503-4 Tests and Measurements in Business Education.**

**511-4 Educational Implications of Learning Theories.** Survey of the major theories of learning. Emphasizes the implications of these theories for classroom practice. Prerequisite: advanced standing.

**515-4 Psychological Aspects of Education.** Designed to survey the applications of psychology to educational settings. Prerequisite: advanced standing.

**520-8 (4,4) Educational Statistics and Experimental Design.** (a) Statistical methods needed for educational research. Includes tests of significance, non-parametrics, correlation analysis, and test selection. Prerequisite: 422b. (b) Systems of organizing and analyzing data so that maximum information can be obtained. Includes analysis of variance, factorial design, square designs, mixed designs, tests of homogeneity, analysis of covariance, etc. Must be taken in a,b sequence. Prerequisite: 422b, 570a.

**525-4 School Behavior Problems and Their Prevention.** A survey of the approaches to the study of personality-development and socialization of the school child. Methods used in the correction of behavior problems are considered. Prerequisite: consent of instructor.



**526-4 Techniques in Individual Guidance.** Each student employs psychometric procedures, makes observations, and holds interviews with a pupil, his parents, teachers, and others. Prerequisites: 525, consent of department.

**528-4 Advanced Guidance of the Individual.** A continuation of 526. Techniques and the methods of treatment which would apply to a particular case. Problems for consideration: educational difficulties, physical disorders, and the ways in which these are related to behavior of school child. Prerequisite: 526.

**536-8 (4,4) Individual Measurement and Appraisal.** (a) Children: Designed to teach the administration of the Stanford-Binet and the Wechsler Intelligence Scale for Children. Class periods are devoted to discussions concerning theories of intelligence and problems in the administration of intelligence tests. (b) Adolescents: Designed to teach the administration of the Wechsler Intelligence Scale for Adults. Class periods are devoted to discussions concerning theories of intelligence and problems in the administration of intelligence tests. Prerequisite: consent of instructor.

**537-4 Counseling Theory and Practice.** Systematic study of the assumptions and fundamental practices of major approaches to counseling. Observation and practice utilized to supplement didactic discussion. Prerequisite: consent of department.

**541-4 Occupational Information and Guidance.** For school counselors, industrial supervisors, and teachers to give an orientation to and experience with occupational information and vocational adjustment. Prerequisite: 442.

**543-4 Guidance Through Groups.** Study of the methods, techniques and materials for the organization and utilization of groups for guidance purposes. Prerequisite: 442.

**545-2 to 4 Seminar.** (a) Problems in guidance. A seminar designed to analyze current problems in guidance. Prerequisite: advanced standing. (b) Learning and communications. Students examine theory and research related to communication by reviewing literature, designing studies, and conducting research projects. Prerequisite: consent of instructor. (c) Educational diagnosis. Use of diagnostic tests in school settings. Includes theory, development, administration, and interpretation of selected diagnostic tools. Prerequisite: consent of instructor. (d) Test development. Applies measurement principles to the development of tests. Primary emphasis upon achievement test construction and research involving test data. Prerequisite: consent of instructor. (e) Test analysis. Extends and applies the research implications from 545d. Prerequisite: 545d. (f) Pupil adjustment. Analyses various concepts of adjustment and their behavioral implications. Prerequisite: consent of instructor. (g) Learning and instruction. Analyses research in classroom learning and implications for the classroom. Included are practice and review, transfer of training, retention and forgetting, and motivation. Prerequisite: 511. (h) Individual differences; extends and applies research. (j) Organization and administration. Analysis of principles, procedures, and plans necessary for initiating, developing, and appraising a school guidance program. Prerequisite: 537a. (m) Doctoral seminar in behavioral foundations of education. Open only to students admitted to doctoral curricula who have completed 590. (n) Counseling. A consideration of issues and problems in counseling within the educational setting. Conclusions from studies of the literature on research and theory are related to practice. Observations and demonstrations are utilized as needed to increase understanding of the dynamics of counseling. Prerequisite: consent of adviser.

**554-4 Verbal Behavior.** (Same as Rehabilitation 565.) Acquisition, maintenance, and attenuation of verbal behavior. Prerequisite: consent of instructor.

**562-8 (4,4) Human Development in Education.** Theories and research evidence regarding child development and behavior are investigated. These considerations focus upon implications for research and educational practices. (a) Childhood. Prerequisite: advanced standing. (b) Adolescence. May be taken in a,b sequence.

**565-4 Psychology of Elementary School Subjects.**

**566-4 Psychology of Secondary School Subjects.**

**575a-4 to 12 Practicum in Counseling.** Practical experience in counseling with a representative sample of the population. May include role playing, psychodrama, and listening to recordings of counseling sessions individually or in groups. Prerequisite: 537a.

**575b-4 to 12 Practicum in Elementary Guidance.** Supervised experience in interviewing and counseling, case study, and educational diagnosis with the elementary school child. Prerequisites: 537a, consent of instructor.

**575c-4 to 12 Practicum in Secondary Guidance.** Supervised experience in guidance functions. Includes counseling with secondary school pupils, conducting parent interviews, consulting with teachers, and the collection and dissemination of information. Prerequisites: 537a, consent of instructor.

**575e-1 to 12 Practicum in College Student Personnel Work.**

**575f-4 to 12 Practicum in Behavioral Modification.** Supervised laboratory in clinical experience in conjunction with didactic course work.

**581a-1 to 12 Internship in Counseling.**

**581b-1 to 12 Internship in Elementary Guidance.**

**581c-1 to 12 Internship in Secondary Guidance.**

**590-2 Seminar in Behavioral Foundations.** A course required of all students beginning advanced graduate study. Students examine empirical modes of inquiry and empirical formulations of learning behavior. Topics explored include the classroom as a social system, the learner, learning models and data language. (Taken concurrently with Educational Administration 591. Prerequisite: formal admission to Doctor of Philosophy studies.)

**596-5 to 9 Independent Investigation.**

**599-3 to 9 Thesis.**

**600-1 to 48 Dissertation.**

### Health Education

**400-4 Health Appraisal of School Children.** The role of the teacher in the health appraisal of the school child, including school health examinations, use of health records, and emphasis on training for recognition of health deviations from normal common among school children. Not open to students who have had 450.

**405-3 Methods and Materials in Social Hygiene.** Methods and materials course designed to prepare the prospective teacher to instruct in various phases of family life education.

**415s-3 to 4 Workshop in Driver Education and Traffic Safety.** Summer course designed for pre-service and in-service teachers of driver education and traffic safety. Individual and group problems will be treated. Lectures by safety authorities, demonstrations, field trips, audio-visual materials, and individually supervised research in special problem areas. Prerequisite: 302 or equivalent.

**442s-4 Practicum in Driver and Traffic Safety Education II.** Provides prospective teachers with dual-control, simulation, and multiple-car laboratory teaching experiences. Teaching beginners, developing programmed lessons, methods, and materials of instruction included. Prerequisite: 302s.

**443s-4 Driver and Traffic Safety Education Program Administration III.** Includes a study of program administration, supervision, and planning. Prerequisite: 442s.

**445s-4 Driver Simulation.** For in-service and pre-service teachers and supervisors of driver and traffic safety education. Methods of instruction, equipment familiarization, program development and objectives. Prerequisite: 443s or consent of the instructor.

**450-4 Health Education in the Elementary School.** Responsibilities of schools to instruct their students in basic fundamentals of how to live healthfully. Principles, methods, programs and materials for the elementary teacher. The integration of health with other subjects, health observation of children, abnormalities, screening tests, and related materials. Not open to students who have had 400.

**460-4 School Health Program.** Shows the prospective teacher the fundamental processes involved in the teaching of health education at the secondary level.

**461-4 Workshop in Health Education.** Summer course for in-service teachers, administrators, advanced students, nurses, social workers, and others interested in public health aspects of school and community living. Individual problems of classroom health treated as units in such fields as speech defects and their detection and correction, communicable disease control, nutrition, social and mental hygiene. Lectures, demonstrations, films, field trips, and individually



supervised research in special problems. Prerequisite: 100 or its equivalent.  
**462-4 Health Education Workshop.** A continuation of 461 with emphasis on total school health teaching objectives.

**463-1 to 4 Workshop in Health Education with Emphasis in Disaster Preparedness.** A continuation of 462.

**464-4 Workshop in Alcohol Education.** Summer course for in-service teachers, administrators, and others interested in the development and improvement of alcohol education programs at the elementary and secondary school levels. Includes approaches to understanding physiology of alcohol, cultural differences and patterns of alcohol problems, teenage drinking and current theories and approaches to alcoholism. Emphasis on the analysis and development of content, methods, materials, teacher preparation, and special needs and problems of individual communities. Demonstrations, lectures, films, field trips, and individual research in special areas.

**471-4 Organization and Administration of School Health.** Appraisal of overall school organization for health education, including health service and personnel, health and safety instruction, school environment, school health examination, local, state, and federal resources for health, health councils, and interdepartmental relationships.

**475s-3 Traffic Law Enforcement and Planning.** Acquaints Safety and Driver Education teachers with the purposes of traffic law enforcement and engineering and the methods used to fulfill these purposes on ways of improving existing services. Prerequisite: 433s or consent of instructor.

**480s-4 Workshop in Safety Education.** Summer course for in-service teachers, nurses, administrators, advanced students, and others interested in safety education as it applies to the public school and the community. Individual problems, lectures, demonstrations, films, field trips, and individual group study in special areas of interest. Prerequisite: 313 or 323 or consent of instructor.

**481s-4 Safety Education Workshop.** A continuation of 480s with emphasis on methods and evaluation of total school safety education. Prerequisite: 314s or 323s or 480s or consent of instructor.

**485-4 International Health.** A survey and analysis of the health beliefs, values, and practices of peoples in other cultures, with particular attention to how these beliefs and practices fit into a total way of life. An international orientation of potential value to both prospective teachers and students in other fields.

**488-4 Health Education Aspects of Environmental Sanitation.** Application of principles of learning to man's contacts with his environment: water, food, air, radiation, housing, and refuse. Emphasis is placed upon both individual and community aspects of environmental health. Prerequisites: 100, 205, or equivalent.

**489-4 Introduction to Vital Statistics.** An introduction to bio-statistics; examination of theories of population growth; understandings of collection, organization, summarization, presentation, evaluation, and interpretation of data relative to biological happenings. Prerequisite: Mathematics 120 or equivalent.

**490-2 to 8. Field Work in School and Community Health.** Field training, observation, and participation in current public and school health programs. Area schools and public health agencies will be utilized to provide practical experience for the health education student. Restricted to majors in the department.

**491-4 Health Teaching Methods in School and Community.** Various dimensions of teacher-student relations in the classroom with emphasis on the multiple roles of the teacher. Prerequisite: 305, 471, or consent of instructor.

**500-4 Community Organization for Health Education.** Review of the philosophies of community organization for health; techniques of group work, current research in community organization and examination of programs of community health agencies.

**510-4 Construction of the Curriculum in Health Education.** Review of health instruction programs in elementary and secondary schools, consideration of health needs and interests and their relationship to the curriculum, evaluation of health texts, and evaluation of current research.

**511-5 Practicum in Health Education Workshop.** Designed to give graduate and post-graduate students experiences in organizing, planning, and operating in-service training programs through workshop methods.

**515-4 Review of Current Literature in Health Education, Public Health and Safety Education.** A survey and analysis of the newer publications in the related fields of health education, public health, and safety education.

**520-4 to 6 Special Projects in Health Education.** For students who may wish to conduct more detailed research and study on advanced problems in the fields of public health, safety education, and health education.

**525s-4 Organization, Administration, and Supervision of Safety Education.** Designed to give the student basic principles of organization, administration, and supervision of safety education. Problems, policies practices, and methods involved in the organization and administration of a safety education program.

**526-4 Evaluation in Health Education.** Survey and analyses of health testing and evaluations, procedure including surveys, inventories, knowledge, behavior and attitude tests, check lists, and questionnaires, their uses and limitations. Evaluation of total school health program is emphasized. By permission of the department.

**530s-4 Problems and Research in Accident Prevention.** Principles of accident prevention, causes of accidents, problems of behavior in school, home, traffic and transportation. Prerequisites: 443s, 525s, or consent of instructor.

**533a-4 Human Conservation.** An analysis of community health problem trends and changes including aging; chronic and degenerative diseases; mental illnesses; traumatic illness, injuries, and defects; radiological hazards; communicable diseases; and maternal and child health problems. An epidemiological approach to the cause, nature, extent, and trends in erosion and wastage of human resources. Prerequisite: permission of instructor.

**533b-4 Human Conservation II.** An analysis of community structures in relation to positive health services, education, and health living in respect to community health problems and health requirements. A study of trends in programming to meet minimum health requirements and to care for or ameliorate existing health problems and hazards on a communitywide basis. Prerequisite: 533.

**533c-4 Human Conservation III.** An analysis of the unmet health needs or requirements for optimum conservation of human resources in the community including a study of pilot and experimental programs and research in community efforts to meet health needs and solve existing health problems. An evaluative approach to existing health programming and research including an analysis of further needed experimentation and research and possible sources for leadership and funds for promoting community health research, programmings, and plannings. Prerequisites: 533a,b.

**536-4 Professional Preparation in Health Education.** National, state, local factors influencing teacher preparation in health education, including accreditation of teacher education programs, certification of health education teachers. Undergraduate and graduate curricula developed and analyzed.

**590-4 to 12 Field Internship.** Full quarter of field work with an approved department of public health or voluntary health agency under the supervision of the agency officer in charge and the supervisor from the Department of Health Education.

**597-3 (1,1,1) Seminar in Health Education.** Seminar for advanced graduate students devoted to discussing individual health projects, presenting research problems and preliminary presentation of dissertation topics.

**599-3 to 9 Thesis.**

**600-1 to 48 Dissertation.** The dissertation for the Doctor of Philosophy degree in the College of Education must meet the minimum requirements of 36 hours.

## Higher Education

**402-2 Principles of College Student Personnel Work.** An exploratory course designed to acquaint the student with the career possibilities and functions of higher education.

**510-4 Higher Education in the United States.** An overview of American higher education: its development and scope, organizations and functions, issues and criticisms.

**512-4 Higher Education in Selected Nations.** Study of higher education systems and trends outside the United States, and of the university in world affairs.



**513-4 Organization and Administration in Higher Education.** Theories and practices in governance of various types of higher education institutions with attention, through case studies, to problems of formal and informal structures, personnel policies, decision-making, institutional self-study, and societal-governmental relations.

**515-4 College Student Personnel Work: Operations and Policies.** Study of organization, functions, and undergirding policies of student personnel services and programs in contemporary colleges and universities.

**516-4 College Student and College Culture.** A study of the nature of the student, the impact of the college on student development, the nature of the college as a unique social institution, and the interaction between the student and his institution.

**518-4 College Teacher and College Teaching.** Study of contextual roles of academic man as teacher, scholar, and faculty member; of teaching-learning processes, programs, and evaluations; and of professional values, including academic freedom.

**522-1 to 12 Readings in Higher Education.** Supervised readings in aspects of such general areas in higher education as college teaching and learning, central administration, college student services, policy issues, or history of higher education. Prerequisite: consent of instructor.

**523-1 to 12 Internship in Higher Education.** Supervised field experience in appropriate settings, with evaluative seminars. (a) College Teaching. (b) College Student Personnel. (c) College Administration. (d) Institutional Research. Prerequisite: consent of department.

**524-2 to 6 Individual Study.** Individual inquiry into selected problems in higher education. Prerequisite: consent of instructor.

**535-2 Higher Education Seminar I.** A series of seminars for specialized areas of administrative practice and policy. (a) Educational Programming in Student Housing. (b) Business Administration of Student Housing. (c) Student Personnel Group Work. (d) Non-Academic Personnel Management. (e) Problems in Central Administration. (f) Business and Fiscal Administration. (g) Academic and Faculty Administration. (h) Administration of Admissions and Records. (i) Junior College Administration. (j) The Technical Institute. (k) Adult and Continuing Education. (m) Institutional Research. (p) Development and Management of Organized Research.

**545-3 Higher Education Seminar II.** A series of seminars for reflective and scholarly inquiry into significant domains in higher education. Prerequisite: consent of instructor. (q) History of Higher Education. (r) Sociology of Higher Education. (s) Law, Legislatures, and Higher Education. (t) Aesthetics and Higher Education. (v) The Federal Government and Higher Education.

**551-4 Curriculum Design and Policy.** Study of assumptions, materials, method, and evaluation in the designs of various curricula in colleges and universities, with attention to curriculum resources and policy.

**555-4 Philosophy of Higher Education.** (Same as Philosophy 555.) Critical examination of assumptions and aims, operations and consequences, and basic concepts and symbols of higher education from philosophic perspectives.

**565-4 The Community-Junior College.** A study of the nature and function of the junior (or community) college in American higher education, and its relationships to the community and other educational institutions. Course content treats special problems of curriculum, student services, finances, faculty selection and growth, and general policy.

**578-4 Economic Aspects of Higher Education.** A study of economic aspects of higher education in American society. The emphasis on sources and management of college and university financing includes budgeting, control, and current trends.

**589-4 to 6 Advanced Research.** Selection, investigation, and writing of a special research project under the personal supervision of a graduate faculty member. Prerequisite: consent of instructor.

**599-1 to 9 Thesis.**

**600-1 to 48 Dissertation.** Minimum of 36 hours to be earned for the Doctor of Philosophy degree.

## History

**401-6 (3,3) History of the South.** (a) The Old South. (b) The New South.



An intensive study of the social, economic, political and cultural developments of the South.

**403-6 (3,3) American Economic History.** (a) to 1800. (b) 1800-1900.

**405-3 The American Civil War.** Emphasis upon the clash of national and sectional interests; economic, political, and military aspects of the conflict. Prerequisite: GSB 300b or consent of instructor.

**406-6 (3,3) Diplomatic History of Europe.** (a) From the Congress of Vienna to the Fall of Bismark (1815-1890). (b) From 1890 to the present.

**409-6 (3,3) U.S. Constitutional History.** A content and research course involving origin and development of the American constitution, from English background through the convention to the present. (a) 19th Century. (b) 20th Century.

**410-2 to 5 Special Readings in History.** Supervised readings for students with sufficient background. Registration by special permission only. Offered on demand.

**411-9 (3,3,3) Social and Intellectual History of the United States.** (a) 1607-1830. (b) 1830-1900. (c) 1900 to present. The development of American society and a study of various types of economic, social, and political thought that have influenced it.

**414-9 (3,3,3) Intellectual History of Modern Europe.** (a) The Enlightenment, (b) The 19th century, (c) The 20th century.

**416-6 (3,3) Early Modern Europe.** (a) Renaissance. (b) Reformation. Prerequisite: Six hours of 300-level social science or consent of the instructor.

**417-9 (3,3,3) Advanced English History.** (a) The Empire-Commonwealth. (b) Constitutional history. (c) English culture in the age of the American Revolution. (d) Tudor England.

**419-6 (3,3) Europe in the Age of Absolutism.** (a) 1648-1715. (b) 1715-1789. Prerequisite: Six hours of 300-level social science or consent of instructor.

**420-4 The French Revolution.** A sketch of the passing of feudalism in France, the background and development of the revolutionary movement, and the Napoleonic period.

**425-6 (3,3) American Colonial History.** (a) Discovery and Settlement, (b) British Imperial structure.

**428-4 The Age of Jackson.** Origins, background, and development of that phase of American democracy associated with the Jacksonian era. The political, social, and economic history of the years 1815-44 will be considered in detail. Prerequisite: GSB 300a.

**430-9 (3,3,3) Late Modern Europe.** (a) Age of Revolution, 1815-1880. (b) 1880-1918. (c) Since 1918. Age of Dictatorships.

**434-9 (3,3,3) The Social and Political History of Modern Europe.** (a) 1815-1870. (b) 1870-1914. (c) Since 1914. Prerequisite: Six hours of 300-level social science or consent of instructor.

**435-12 (3,3,3,3) Advanced American History.** (a) 1865-1895. (b) 1896-1919. (c) 1919-1939. (d) 1940-present.

**440-9 (3,3,3) History of American Diplomacy.** A study of the important treaty relations of the United States, and a general consideration of American foreign policies. (a) America in isolation (to 1860). (b) The emerging America (from 1860 to 1920). (c) America on the world scene (1920 to the present). Prerequisite: GSB 300 a,b.

**442-9 (3,3,3) History of the West.** (a) Colonial. (b) Trans-Allegheny. (c) Trans-Mississippi.

**448-3 An Introduction to the History of South-East Asia.** Survey of the history of Southeast Asia from the earliest times with emphasis on the recent and contemporary developments.

**449-3 Development of Afro-Asian Nationalism.** A study of the rise of national movements, the winning of independence, and the vast array of reconstructional problems. Post-Bandung developments and the relation of Afro-Asian nationalism to the Communist world are extensively discussed.

**451-3 Historiography.** Development of history as a written subject, including works and philosophy of the various historians in ancient, medieval, and modern periods.

**452-3 Historical Research and Thesis Writing.** The rules of historical research studied and applied to a definite topic. For history majors only.

**455-3 History of Inner-Asian Relations.** Tribes, migrations, wars, and power politics in Central Asia and outlying areas of China from Han times through 19th century rivalries to latest development along the Sino-Soviet frontier.

- 460-9 (3,3,3) Social and Intellectual History of the Middle Ages.** (a) 500-1000. (b) 1000-1250. (c) 1250-1500.
- 464-6 (3,3) History of Germany.** (a) German state and society from the Middle Ages to the early 19th century. (b) Germany since 1815. Prerequisite: Six hours of 300-level social science or consent of instructor.
- 465-6 (3,3) History of Russia.** (a) Traditional Russia to 1905. (b) Revolutionary Russia Since 1905.
- 470-3 Argentina, Brazil, and Chile.** A narrative and comparative study of the independent era of the history of the three leading states of South America.
- 471-6 (3,3) History of Mexico.** (a) 19th century. (b) 20th century. Significant political, economic, diplomatic, social, and cultural aspects of Mexican life from independence to modern Mexican life.
- 473-6 (3,3) The Caribbean Area.** (a) In the 18th and 19th centuries. (b) In the 20th century. An inquiry into the changing role of the political, economic, strategic and cultural nature of this Mediterranean of the New World.
- 475-6 (3,3) Dictatorship in Latin America.** A political, economic, social and military study of the domestic and international aspects of dictatorship. (a) 19th century. (b) 20th century. Prerequisite: junior standing.
- 481-6 (3,3) History of Rome.** (a) Rome from republic to empire, 133 B.C.-A.D. 14. (b) Roman Empire to the death of Constantine. Prerequisite: Six hours of 300-level social science or consent of instructor.
- 498-6 (3,3) History Honors.** Study of the great ideas and works of history, for senior honors students in history; directed research for the honors thesis. (a) History honors. (b) Research, honors thesis. Prerequisite: consent of department.
- 500-4 to 10 History Seminar.** (a) American history, (b) European history, (c) Latin American history.
- 510-2 to 5 Readings in History.** Registration by special permission only.
- 511-3 Studies in the Middle Ages.** Extensive reading and discussion in selected topics of medieval European history.
- 512-3 Studies in Nineteenth Century Europe.** An advanced readings course in selected problems of 19th century Europe. Emphasis will be on economics, social, and intellectual history. Prerequisite: History 430a and b or consent of instructor.
- 514-3 Studies in Asian History.** Pro-seminar course on select topics in Asian History. Prerequisite: consent of department.
- 515-6 (3,3) Seminar in Twentieth Century United States History.** United States history since 1896 with emphasis upon politics and political behavior. Prerequisites: graduate status.
- 516-4 Studies in Contemporary Europe.** A content and research course in European civilization since 1914 which stresses the rise of totalitarianism and the democratic crisis.
- 518-3 England in the Age of the "Glorious Revolution."** An analysis of the ideas and forces that converted the English government into a liberal state with an emphasis on the concepts and principles later applied in the establishment of the American Constitution.
- 519-6 (3,3) The Age of Jefferson.** Rise and development of Jeffersonian Democracy, 1790-1824, with emphasis upon social, economic, and political programs of Republicans and Federalists; the clash of mercantile and agrarian interests.
- 520-6 (3,3) Sectionalism and Reform.** Study of major political, economic, and social issues, 1820-1850, which divided the United States and prepared the way for civil war.
- 521-6 (3,3) Seminar in American Diplomatic History.** A content and research course concerning selected studies in American diplomacy. Prerequisite: 6 hours of 300-level social science or consent of instructor and 440.
- 522-6 (3,3) Seminar in American Economic History.** (a) Reading seminar in the economic aspects of American history. (b) Research seminar problems. Prerequisites: Economics 214 or 215 or consent of instructor.
- 523-6 (3,3) Seminar in American Social History.** Research and writing in selected topics relating to the development of American society and institutions. Prerequisite: consent of instructor.
- 524-6 (3,3) Seminar in American Constitutional History.** (a) Reading seminar devoted to the important literature in constitutional history. (b) Research seminar in which the student will closely investigate a significant topic. Prerequisite: consent of instructor.



- 525-6 (3,3) Seminar in American Colonial History.** Advanced research in specific areas of Colonial history. Prerequisite: consent of instructor.
- 553-3 New Viewpoints in American History.** New interpretations and recent developments in American history. Prerequisite: GSB 300.
- 568-6 (3,3) Seminar in Illinois History.** A seminar in selected topics in Illinois history, 1818-1918. Prerequisite: consent of instructor.
- 574-3 United States-Mexican Relations.** A content and research course concerning international relations between the United States and Mexico.
- 575-9 (3,3,3) Studies in Latin American History.** A content and research course concerning selected studies in Latin American history.
- 598-3 (1,1,1) Teaching History in College.** Required of all first-year teaching assistants.
- 599-1 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree.

### Home and Family

- 407-2 to 8 Workshop.** Aids workers in professions related to home and family.
- 423-4 Advanced Family Housing.** (Same as Clothing and Textiles 423.) Further appreciation and understanding of aesthetic, economic, psychic, and social factors influencing choice of family housing today. Prerequisite: Clothing and Textiles 323 or consent of instructor.
- 424-4 Selection, Use, and Care of Appliances.** Materials used in equipment, methods of construction, and principles of operation of appliances for cooking, refrigeration, laundering, cleaning; selection, operation, and care of appliances to obtain maximum satisfaction in use. Offered on demand. Prerequisite: 324 or consent of instructor.
- 435-4 Work Simplification in Home Management.** Basic scientific work simplification principles applied to work done in the home by full-time, employed or physically handicapped homemakers.
- 445-4 Administration of Pre-School Program.** Objectives in pre-school programs. Programming, including housing, equipment, health protection, and supervision. Field trip. Prerequisite: 345b or consent of instructor.
- 456-4 Infant Development.** Current theories and knowledge concerning growth and development of infants with related laboratory and field experiences. Prerequisite: 237 or Psychology 301 or equivalent.
- 466-2 Practicum in Parent-Child Study.** Designed to increase student's ability to work with parents and parent groups through an awareness of factors in the parent-child relationship and knowledge of current research and methods in parent education. Integration with infant and child development laboratories and related field experience. Prerequisites: 227 and 237 or equivalent.
- 471-2 to 6 Field Experience.** Opportunity for supervised learning experiences in selected areas. Prerequisite: consent of chairman of department.
- 481-2 to 6 Readings.** Supervised readings for qualified students. Prerequisite: consent of instructor and chairman.
- 500-4 Research Methods.** The nature of the scientific method and basic techniques in home and family research as applied to the collection, analysis and interpretation of data. Prerequisite: Guidance 422b or Mathematics 420 or consent of instructor.
- 540-4 Trends in Consumer Problems.** Social, legal, and economic problems that pertain to the consumer. Selection of individual problems for investigation. Prerequisite: 341 or equivalent.
- 550-4 Advanced Home Management.** Readings, observations, projects, and discussions on selected problems with emphasis on time, money, energy, and family relations. Prerequisites: 331 and 332 or equivalent.
- 556-4 The Pre-School Child.** Growth of the child from birth to six years with emphasis on the various aspects of growth and their interrelationships.
- 562-4 Child Development Through Home and School.** The normal, healthy development of children as it takes place in the home and is promoted by the curriculum and other school activities.
- 566-4 Interpersonal Relationships Within the Family.** Factors that promote satisfactions within the immediate family. Prerequisites: 227 or GSB 341, 237, and 331.
- 571-4 Recent Research.** Review of selected research in various phases of home economics in related fields. Sources of research include colleges, universities, and governmental and industrial agencies. Offered on demand.



**572-2 to 8 Special Problems.** For students recommended by their chairman and approved by the head of the department and the instructor in charge for independent work or directed study.

**599-5 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree.

**600-3 to 48 Dissertation.** Minimum of 36 hours to be earned for the Doctor of Philosophy degree.

### **Home Economics Education**

**414-4 Home Economics for Elementary Teachers.** Units of work in nutrition, school lunches, family and social relationships, textiles, and clothing.

**415-1 Introduction to Graduate Study.** Seminar to orient the student to graduate work through relation of courses to goals of program, standards of work, habits of thinking, communication of ideas, uses of professional materials and publications. Required. Students should take at first opportunity.

**481-2 to 6 Readings.** Supervised readings for qualified students. Prerequisite: consent of instructor and chairman of department.

**485-3 Principles and Philosophies of Vocational and Technical Education.** (See Technical and Industrial Education 485.)

**500-4 Research Methods.** Methods employed in research in home economics education with special study of one according to interest and needs of student. Development of prospectus. Prerequisite: Guidance 422b or consent of instructor.

**505-4 Home Economics in Secondary Schools.** Consideration of the curriculum for homemaking education in the secondary school. A critical survey of resources. The place of homemaking education in the school and community.

**506-4 Evaluative Procedures in Home Economics.** Principles and procedures underlying appraisal and evaluation. Development and critical consideration of instruments for appraising pupil growth and the program of instruction. Emphasis placed on values.

**507-2 to 8 Workshop.** Designed to aid home economics teachers, supervisors, and leaders in the field with current problems. Resource people are used. Discussions, reports, lectures, and other methods of analyzing and working on solutions to problems. Emphasis for the workshop will be stated in the announcement of the course.

**510-4 Supervision of Home Economics.** Nature, function, and techniques of supervision at all levels. Emphasis given to supervision of student teachers. Experience in the field will be provided for qualified teachers.

**510A-1 to 4 Practicum in Supervision.** Experience in using a variety of techniques at various levels and areas of supervision both on and off campus. Prerequisite: 510 or Educational Administration 556 or consent of instructor.

**515-4 Trends and Issues in Home Economics Education.** Current trends, problems, needs in the field. Attention given to problems and needs of students.

**516-4 Advanced Methods of Teaching Home Economics.** Recent trends in methods based on research and experimental programs; furthering good relations in homemaking classes as means of clarifying and accomplishing goals; teacher's role; techniques useful in furthering good relations within group and in meeting individual needs. Emphasis given to social significance of these procedures.

**517-4 Methods and Materials for Adult Programs in Home Economics.** Philosophy of adult education; unit planning, methods, techniques, and resources useful in adult homemaking programs.

**525-3 Interrelated Vocational Cooperative Education.** (See Technical and Industrial Education 525.)

**571-4 Recent Research.** Review of selected research in various phases of home economics in related fields. Sources of research include colleges, universities, and governmental and industrial agencies. Offered on demand.

**572-2 to 8 Special Problems.** For students recommended by their chairman and approved by the head of the department and the instructor in charge for independent work or directed study.

**573-1 to 6 Seminar: Research in Home Economics.** Presentation of prospectus outlines, research projects, problems for research, progress reports of research by graduate students and faculty. Prerequisite: consent of instructor.

**599-5 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree.

**600-3 to 48 Dissertation.** Minimum of 36 hours to be earned for the Doctor of Philosophy degree.

### Instructional Materials

**400-2 Library Research Methods.** Introduction to the use of library materials in graduate research. Includes a survey of scholarly publishing and the use of reference works in various subjects.

**403-4 School Library Functions and Management.** Effective library services in relation to the educational objectives of elementary and secondary school programs: organization, supervision, finance, housing, equipment, standards, and evaluation.

**405-4 Library Materials for Children.** Study of the aids, methods, and criteria for the selection and use of books and other instructional materials for children in the elementary schools.

**406-4 Library Materials for Adolescents.** A study of the aids, methods, and criteria for the selection and use of books and other instructional materials for students in the high school.

**407-4 Basic Reference Sources.** Evaluation, selection, and use of reference sources for elementary and secondary school libraries. Principles and methods of reference service.

**410-4 Public Library Administration.** The administration of municipal, county, and regional libraries, both large and small, with emphasis on meeting the needs of different types of communities.

**413-4 Cataloging Non-Book Materials.** The classification, cataloging, preparation and circulation of all types of non-book material such as films, filmstrips, slides, realia, etc. Prerequisite: 308.

**417-4 Audio-Visual Learning Methods in Education.** Selection and utilization of instructional materials in the learning environment, elementary through adult levels. Audio and visual materials and procedures are emphasized with some attention given to bibliographies and reference books for teachers.

**420-4 School Library Activities and Practice.** Supervised practice and observation integrated with instruction in the typical activities of school librarianship; storytelling, publicity, developing units of library instruction, and work with students. Prerequisites: 308, 403, 405, or 406 and 407.

**440-2 Photography for Teachers.** Techniques of picture-taking and the preparation of color slides of community resources for use in classroom instruction and for school public relations.

**445-4 Preparation of Teacher-Made Audio-Visual Materials.** Laboratory practice in the preparation of bulletin boards, opaque materials, models, slides, recordings, feltboards, and other graphic materials. Prerequisite: 417 or consent of instructor.

**448-4 Supervision and Administration of an Audio-Visual Program.** Provides professional information and training for anyone who has administrative responsibilities for an audio-visual program. For teachers, coordinators, or directors. Prerequisite: 417 or consent of instructor.

**450-2 Classroom Teaching with Television.** Classroom utilization of open and closed circuit television. Emphasis is placed on the changed role of the classroom teacher who uses television. Evaluation of programming, technicalities of ETV, and definition of responsibilities are included. Demonstration and a tour of production facilities are provided.

**457-4 Radio and Television in the Classroom.** Educational programs and their value to the teacher in the classroom. Sample tapes of radio programs and kinescopes are used.

**458-4 The Medium of the Motion Picture.** A study of the full range of expression by motion pictures including documentary, theatrical, educational, experimental, and industrial films. Representative films are screened.

**470-4 Programming Automated.** The principles and practice of writing both linear and intrinsic types of programmed instruction with emphasis on pictorial and performance branches. Individual experience in planning and producing programs.

**510-4 Mass Communications in Education.** The use of mass media in the classroom. Includes radio, TV, comic books, newspapers, magazines, motion pictures.

**514-4 Survey of Research and Development in Instructional Materials.** Ad-



vanced readings in research in instructional materials and the practical application of findings. Prerequisites: 405, 406, 417 or consent of instructor.

**523-4 Seminar on Junior College Librarianship.** Problems of particular significance to the junior college librarian: organization, materials, responsibilities, standards, and evaluation.

**530-4 History of Books and Libraries.** The evolution of the printed book and the rise and development of modern libraries.

**546-4 Integration of Audio-Visual Materials in the Classroom.** Selection of materials on the basis of curricular needs. Techniques of evaluating each type of audio-visual material for use in the classroom. Structured for both the audio-visual administrator and the class room teacher. The principles and practices of integrating audio-visual materials into the curriculum are discussed, also the problems, annotations and classification of evaluated materials. Prerequisites: 417, or consent of instructor.

**547-4 School Film and Filmstrip Production.** Simplified techniques for teachers and audio-visual coordinators who may need to produce school-made films and filmstrips to meet local school problems. Prerequisites: 417 and 440 or consent of instructor.

**549-4 Visual Learning.** Learning from pictures in the classroom, the design of still and moving pictures, pictures used in testing perception, and the place of pictures in advertising and communication. Prerequisite: consent of instructor.

**554-4 Administration of an Instructional Materials Center.** Based on the concept of a single agency in the school that encompasses all forms of instructional materials. It is designed to further the training of specialists in the supervision and administration of integrated audio-visual and library programs. Prerequisite: 403.

**560-4 Seminar in Instructional Materials.** Designed to give advanced graduate students an opportunity to investigate and discuss topics in instructional materials before the seminar group. Topics selected would depend on background and interest of individuals. Prerequisite: consent of instructor.

**576-2 to 8 Problems in Instructional Materials.** Opportunity for individual study of selected problems. Prerequisite: consent of instructor.

**599-5 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree.

**600-1 to 48 Dissertation.**

### Journalism

**401-3 International Journalism.** A study of the history, development, current status, and implications of the press and news services of other countries and their relationship to the international communications system.

**420-4 2 to 4 High School Journalism Clinic.** For public school teachers.

**421-4 School Publications.** Designed for the prospective journalism teacher or high school publications director. Deals with practical production problems of newspapers and yearbooks.

**422-3 Teaching High School Journalism.** Teaching methods of journalism in secondary schools, organization and course of study, bibliography, use of journalism courses for school publications production.

**432-3 Foundations of Mass Communications Theory.** Construction of communication theory, development of communication models, and relation of empirical investigations to theories of mass communication.

**433-6 (3,3) Research Theory and Design.** (a) Research design, sample selection, and methods appropriate to field, experimental, and survey research. (b) Research Methods. Series of research projects utilizing a variety of research methods. Class discussion precedes and follows each project.

**421-4 School Publications.** Designed for the prospective journalism teacher or high school publications director. Deals with practical production problems of newspapers and yearbooks.

**442-3 The Law of Journalism.** Legal limitations and privileges affecting communications; fair comment, criticism, contempt of court, right of privacy, copyright, and legal provisions affecting advertising.

**449-2 to 8 Practicum.** Study, observation, and participation in publication supervision. Work required on *The Daily Egyptian* newspaper.

**479-3 Role of Advertising in our Society.** An exhaustive analysis of the



literature covering such topics as: definitions and scope of advertising; advertising and the press; advertising as a social and economic force; evaluation of advertising; and advertising policies as related to the practices of specific business firms.

**493-3 Publicity Methods II.**

**495-3 Book Reviewing.** Theory and practice in reviewing modern books; study of newspapers and magazines devoted entirely or in part to this type of journalism.

**499-3 Summer Workshop in News Analysis in the Classroom.** A study of the relationship of the newspaper to other high school coursework. Time spent in developing ways of integrating the newspaper in the classroom.

**501-3 Literature of Journalism.** Critical reading of selected books relating directly and indirectly to journalism. Lectures, reviews, and discussions comprise the course work.

**530-2 Seminar in Press Freedom.** Observation of the comment function performed by the daily newspaper as related to current issues; role of the editorial writer, syndicated columnist, and cartoonist.

**532-4 Seminar: Mass Communication Theory.** Individual exploration of some aspect of mass communication theory. Students construct communication models of their own design and test them.

**533-1 to 4 Research Problems in Journalism.** Individual work on selected problems for research.

**540-3 Philosophy of Journalism.** A study of journalistic ethics with emphasis on concepts of freedom and responsibility and the development of journalistic standards. Consideration of the responsibility of press in modern society.

**545-3 Studies in Journalism History.** A critical analysis of the literature in the context of the social and intellectual history of the times.

**590-3 Seminar in Journalism History.** Analysis of and practice in scholarly writing in the field of journalism history.

**595-0 Graduate Seminar.** Discussions of matters relating to graduate study, research, departmental and university requirements. Guest lecturers will discuss their research activities and areas of general interest to journalism graduate students. Required each quarter for all journalism graduate students.

**599-1 to 8 Thesis.** Minimum of 5 hours to be counted toward a master's degree.

**600-1 to 48 Dissertation.** Minimum of 36 hours to be earned for the Doctor of Philosophy degree.

## Management

**430-4 Organizational Behavior I.** The study of human problems in administration; individual, group, intergroup, and organizational behavior under dynamic environment conditions. Theory and case analyses. Prerequisite: 340, GSB 201b,c.

**431-4 Organizational Behavior II.** A study of classical and modern theories concerning complex organizations. Particular emphasis on processes and issues of dividing work, achieving coordination, and organizational change and adaptation. Prerequisite: 340.

**440-4 The Management Process.** Analysis of management theories and the administrative process. Specific managerial activities are analyzed and discussed. Functional relationships in administered organizations are explored. Restricted to Master of Business Administration students.

**451-4 Methods of Quantitative Analysis.** Introduction to modern mathematical technologies applicable to solving business problems. Methods reviewed include symbolic logic, linear algebra and finite mathematics. Restricted to Master of Business Administration students.

**452-4 Business Operations Analysis.** Analysis of business operations and management problems emphasizing problem formulation, performance measures, decision criteria and various mathematical models and their application; linear programming, game theory etc. Prerequisites: 340 and 451 or consent of instructor.

**455-4 Programming for Digital Computers.** Computer organization and characteristics, machine language-coding, flow charts, subroutines, optimum and symbolic coding, compilers and interpretative systems. Laboratory uses Computing Center equipment. Prerequisite: consent of instructor.

**460-4 Work Measurement For Wage and Salary Control.** Research design and methodology for wage and salary administration in an organization; fundamental considerations in evaluating jobs and positions; compensation methods and wage incentive systems. Prerequisite: 385.

**461-4 Management Decision Making.** Survey of problem solving theories and methods; decision information and systems models and applications. Analysis of administrative behavior in the decision process within formal organizations; socio-economic constraints and their interaction. Prerequisite: senior standing or consent of instructor.

**472-4 Small Business.** Small business analysis, primarily through case studies of business financing, location, organization, merchandising practices, records, government regulation, and taxes.

**474-4 Management Responsibility in Society.** Relationship of profit and service objectives of management and their limitations on management authority. Resolution of business-society conflicts with external environmental groups through socially responsible management. Prerequisite 340.

**479-4 Problems in Business and Economics.** Applications of economic theory and tools of analysis to practical business problems. Cost and demand functions are analyzed from a policy standpoint. Prerequisite: Senior standing.

**480-4 Recent Labor Law Developments and Problems.** Social, economic, and legal evaluations of recent labor problems, court decisions, and legislation. Long-run concern is on legislative impact on manpower planning, dispute settlement, and utilization of employment resources. Prerequisite: Business Law or Economics 310 or Government 395.

**481-4 Administrative Management.** Integration and analytical application of business core courses to comprehensive business cases. Emphasis on policy issues in the identification and resolution of business problems. Prerequisite: 340.

**483-4 Advanced Production Management.** Internal problems of managerial control of production including recent developments in theory and techniques: case material will be utilized for the development of analytical ability. Prerequisite: 380.

**485-4 Problems in Personnel Management.** Analysis of problems in personnel administration arising from the current developments in organization. Included are case problems, special reports, and personnel practices. Prerequisite: 385.

## Marketing

**401-4 Problems of Retailing.** Emphasis application of managerial marketing concepts to the solution of typical retailing problems. Prepared retail management cases are analyzed along with individual reports on current retailing problems. Prerequisite: 329 or 450.

**438-4 Sales Management.** Developing and training a sales force. The different types of sales forces. Managing sales functions: determining salesmen's territories, quotas, compensation. Budget preparation. Development and implementing the merchandise plan. Prerequisite: 325 or 450.

**439-4 Industrial Marketing Management.** Designed to give an over-all view of the field of Industrial Marketing. Additional emphasis to be placed on decision criteria. Prerequisite: 325, 336.

**450-4 Introduction to Managerial Marketing.** Designed to give an over-all view of the field of marketing and the field of marketing policy decisions. Cases are used to illustrate theory covered. Prerequisite: Restricted to Master of Business Administration students.

**452-4 Physical Distribution Management.** Spatial relationships of plant capacity and storage facilities and their connecting link, transportation. Prerequisite: 341 or graduate standing.

**463-4 Advertising Management.** A study of advertising from the viewpoint of business management. Problems of integrating advertising into marketing programs and related advertising issues are emphasized. Prerequisite: 333 or 450.

**490-4 Marketing Research and Analysis.** A nonmathematical development of the basic procedures, methods, and theory underlying analysis of primary and secondary market data. Prerequisites: 325, or 450 and statistics.



## Mathematics

**400-3 History of Mathematics.** An introduction to the development of major mathematical concepts. Particular attention given to the evolution of the abstract concept of space, to the evolution of abstract algebra, to the evolution of the function concept, and to the changes in the concept of rigor in the development of mathematics from 600 B.C. Prerequisite: 320a or consent of instructor.

**410-16 (4,4,4,4) Statistical Analysis.** For students in fields using statistical methods but who are not required to take calculus. Includes (a) elements of probability, estimation, and testing hypotheses; (b) the general linear model (multiple linear regression, analysis of variance, analysis of covariance) and nonparametric statistics; (c) design of experiments; (d) sample survey techniques. May not be used to satisfy requirements for a mathematics concentration. Three lectures and 2 laboratory hours per week. Must be taken in either a,b,c,d or a,b,d,c sequence. Prerequisite: GSD 108c or 114b.

**419-6 (3,3) Algebraic Structures.** A study of the properties of such basic algebraic structures as groups, rings, fields. Must be taken in a,b sequence. Prerequisite: 301 or consent of department.

**421-6 (3,3) Linear Algebra.** The theory of determinants and systems of linear equations; vector spaces, linear independence, bases, dimension; linear transformations, change of base, similarity; quadratic and Hermitian forms, orthogonal, and unitary transformations; triangular and diagonal form; eigenvalues and eigenvectors; normal matrices; nilpotent and idempotent matrices, the spectral theorem. Must be taken in a,b sequence. Prerequisite: 252b.

**425-3 Theory of Numbers.** Selected topics from number theory. Prerequisite: 325 or consent of instructor.

**426-6 (3,3) Mathematical Logic.** A formal development of the classical propositional calculus and functional calculi of first and second order from the primitive basis. Consistency and completeness. Validity and satisfiability. Must be taken in a,b sequence. Prerequisite: 301 or consent of department.

**428-6 (3,3) Boolean Algebra and Switching Theory.** An introduction to Boolean algebra with applications to switching circuits, set theory, and logic; Boolean functions and canonical forms; Boolean rings and algebras; linear graphs; partially ordered sets and lattices; theory of simplification and design of combinational and sequential circuits. Must be taken in a,b sequence. Prerequisite: 320a or consent of instructor.

**430-4 Projective Geometry.** Introduction to the fundamental concepts of projective geometry. Topics usually include the study of conics, polar systems of conics, homogeneous coordinates, cross-ratio, harmonic sets, duality, projectivities, and involutions. Prerequisite: 252a or consent of instructor.

**433-6 (3,3) Introduction to Topology.** Topological spaces, continuity and homeomorphisms, construction of topologies, separation, compactness, connectedness, completeness. Must be taken in a,b sequence. Prerequisite: 301 or consent of department.

**440-2 to 4<sup>1</sup> Modern Algebra for Teachers.** An introduction to algebra as a logical system, including groups, rings, and fields. Prerequisite: consent of instructor.

**442-2 to 4<sup>1</sup> Survey of Geometry.** A survey of geometry, including projective geometry, topology, etc. Prerequisite: consent of instructor.

**444-2 to 4<sup>1</sup> Sets, Functions, and Relations.** Basic ideas of sets, set algebra, elementary logic, relations and functions, graphing. Prerequisite: consent of instructor.

**445-2 to 4<sup>1</sup> Fundamental Concepts of Calculus.** A careful study of the basic concepts of calculus, offered as part of the special graduate program for secondary school teachers. Prerequisite: consent of instructor.

**452-9 (3,3,3) Advanced Calculus.** Fundamental concepts of analysis: limits, continuity, differentiation, and integration. Major topics include partial differentiation, vector analysis, Riemann-Stieltjes integrals, multiple integrals, infinite series, improper integrals, uniform convergence, Fourier series, and

<sup>1</sup> These courses are open to candidates for the Master of Science in Education degree in mathematics, to National Science Foundation Institute participants, and to those who have received the consent of the chairman of mathematics or the director of the institute.



line and surface integrals. Must be taken in a,b,c sequence. Prerequisite: 252b.  
**455-3 Advanced Mathematics for the Physical Sciences.** A course in the elements of the theory of functions of a complex variable with stress on techniques and applications. Topics include a discussion of analytic functions, contour integration, and conformal mapping. Prerequisite: 252b.

**458-6 (3,3) Finite Mathematics.** An introduction to topics in finite mathematics such as logic, sets, probability, linear algebra, and Markov chains. This course is designed for students preparing for high school teaching and for advanced students in the behavioral sciences. Prerequisite: 252a or consent of instructor.

**460-4 Modern Geometry.** Advanced topics in Euclidean geometry by the synthetic method. Topics include the nine-point circle, Simson line, theorems of Ceva and Menelaus, coaxal circles, harmonic section, poles and polars, similitude, and inversion. Prerequisite: 20 hours of college mathematics.

**475-9 (3,3,3) Numerical Analysis.** Introduction to approximation methods including finite differences and interpolation; numerical differentiation and quadrature; least squares approximation; numerical solution of linear and non-linear systems; numerical integration of systems of ordinary and partial differential equations. Emphasis upon error analysis throughout. Must be taken in a,b,c sequence. Prerequisites: 305a or 252b and consent of instructor.

**480-10 (4,3,3) Probability.** Introduction to probability theory. Includes the algebra of probabilities; discrete and continuous distributions, limit theorems, generating functions, and some elements of stochastic processes. Must be taken in a,b,c sequence. Prerequisite: 252b.

**483-12 (4,4,4) Introduction to Mathematical Statistics.** A mathematical development of the elements of statistical theory. (a) Probability distributions, generating functions, and limit theorems. (b) Statistical inference: estimation, tests of hypotheses, general linear hypothesis. (c) Design of experiments—a mathematical model approach. Must be taken in a,b,c sequence with the exception that 480a, 421a, and consent of instructor may replace 483a. A student will not be allowed university credit for both 480a and 483a. Prerequisite: 252b.

**501-9 (3,3,3) Real Variables.** A basic course in mathematical analysis. (a,b) The real number system; fundamental theorems in limits and continuity; open, closed, compact, and connected sets in Euclidean and metric spaces; the Riemann and the Riemann-Stieltjes integrals and functions of bounded variation; infinite series; uniform continuity; uniform convergence of series and improper integrals; arcs and curves; implicit function theorem; multiple integrals. (c) The general theory of measure and integration from an abstract point of view. Additive classes of sets, Borel sets, measurability, measure and outer measure; integrable functions, convergence theorems; absolute continuity and the Radon-Nikodym theorem; Fubini's theorem. Must be taken in a,b,c sequence. Prerequisite: 452c.

**505-9 (3,3,3) Theory of Ordinary Differential Equations.** Existence and uniqueness theorems; general properties of solutions; linear systems; geometric theory of nonlinear equations; stability and control theory; self-adjoint boundary problems; oscillation theorems. Must be taken in a,b,c sequence. Prerequisite: 501b and 421a or consent of instructor.

**507-9 (3,3,3) Partial Differential Equations.** Classification of partial differential equations; separation of variables; elementary solutions of the heat and wave equations; potential theory; n-dimensional parabolic operators. Must be taken in a,b,c sequence. Prerequisite: 452c.

**510-4 Foundations of Mathematics.** A critical survey of the logical basis of mathematical systems. Deductive processes, mathematical proof theory, axiomatics, nature of model systems, principles of theory construction, views concerning the nature of mathematics. Prerequisites: 252b or consent of instructor.

**520-9 (3,3,3) Modern Algebra.** Topics from group theory, ring theory, and field theory; including Sylow theorems, solvable groups, nilpotent groups, rings with descending and ascending chain conditions, elementary divisor theorem for R-modulus, Galois theory, and cyclotomy. Must be taken a,b,c sequence. Prerequisite: 419 or consent of instructor.

**522-3 to 18 Advanced Topics in Algebra.** Group representations, homological algebra, algebraic geometry, algebraic numbers. Prerequisite: 520b.

**528-9 (3,3,3) Theory of Automata.** Sequential machines: finite vs. infinite, complete vs. incomplete, deterministic vs. stochastic; submachines; strong



connectivity; equivalence of states and machines; state minimization; experiment theory; realization and decomposition. Monadic algebras and automata: representation by equivalence and congruence relations; regularity of sets of sequences; representation by semigroups; source, primary and cycle; automata homomorphisms, characterization of automorphisms on automata; automata-representation of groups; quotient automata. Must be taken in a,b,c sequence. Prerequisite: 428b.

**530-6 (3,3) Point Set Topology.** Topological spaces; denseness, category; open, closed sets, Borel sets; separation axioms; subspaces; continuity; lattice of topologies; countability axioms; connectedness, compactness, local properties; regularity to complete normality. Hilbert space, metrizable spaces; extension theorems; well-ordering; product spaces. Must be taken in a,b,c sequence. Prerequisite: 433 or 501b.

**531-6 (3,3) Algebraic Topology.** Abstract complexes and polyhedra; chains and cochains; homology and cohomology of polyhedra; simplicial functions; simplicial approximation; induced homomorphisms; Eilenberg-Steenrod axioms; singular homology theory. Must be taken in a,b sequence. Prerequisites: 530a and 520a.

**532-3 to 18 Advanced Topics in Topology.** Materials to be selected from special areas of topology; such as topological groups, topological dynamics, and uniform spaces. Prerequisite: 530b.

**536-3 Differential Geometry.** Curvature, torsion, the Frenet formulas, and intrinsic equations of curves in three-dimensional Euclidean space; applications to kinematics. Curves on a surface; first and second fundamental forms; normal sections and Meusnier's theorem; mean and total curvature. Prerequisite: 452c.

**540-4<sup>1</sup> Groups and Linear Transformations.** A study of groups with their connection with the movements of regular plane figures, matrices, vectors, determinants with their interpretation and use in analytic geometry, and ruler and compass constructions. Prerequisite: 440 or equivalent.

**543-4 Probability for Teachers.** An introduction to the basic concepts of probability theory. Major topics include algebra of events, probabilities in a finite sample space, conditional probabilities and stochastic independence, random variables and their distribution, mathematical expectation, standard deviation, covariance, special distributions. This course is open to candidates for the Master of Science in Education degree in mathematics, to National Science Foundation Institute participants, and to those who have received the consent of the chairman of the Department of Mathematics or the director of the Institute.

**545-4<sup>1</sup> Intermediate Analysis for High School Teachers.** A rigorous development of differentiation and integration of continuous real functions. Topics include sequences, series, limits, real continuous functions, integrable functions on a closed interval. Prerequisite: consent of instructor.

**547-2 to 4<sup>1</sup> The Secondary School Mathematics Program.** An analysis of contemporary trends in curriculum development in secondary school mathematics, including a study of textbooks, teaching aids, and programmed materials. Prerequisite: consent of instructor.

**548-2 to 4<sup>1</sup> Trends in Elementary School Mathematics.** Informs secondary school mathematics teachers of the important developments in mathematics instruction in elementary schools. Prerequisite: consent of department.

**550-1 to 10 Seminar.** Supervised study and preparation of reports on assigned topics. Reports presented for class discussion. (a) Algebra. (b) Geometry. (c) Analysis. (d) Probability and Statistics. (e) Mathematics Education. (f) Logic and Foundations. (g) Topology. Prerequisite: consent of instructor.

**551-9 (3,3,3) Functional Analysis.** The theory of linear transformations between infinitely dimensional topological vector spaces, including Banach and Hilbert spaces, with various applications. The basic notion for the study is that of a functional or continuous scalar-valued linear transformation. Must be taken in a,b,c sequence. Prerequisites: 501c and 421b.

**552-3 to 18 Advanced Topics in Analysis.** Abstract harmonic analysis, uniform asymptotic distribution model of sequence, several complex variables, summability methods. Riemann surfaces. Prerequisite: 501c.

<sup>1</sup> These courses are open to candidates for the Master of Science in Education degree in mathematics, to National Science Foundation Institute participants, and to those who have received the consent of the chairman of mathematics or the director of the institute.



**555-9 (3,3,3) Complex Variables.** Classical and modern analytic function theory, including Cauchy-Riemann equations, Cauchy-Goursat theorem, conformal mapping, normal families, Riemann mapping theorem, calculus of residues, analytic continuation, Riemann surfaces, entire functions. Must be taken in a,b,c sequence. Prerequisite: 452c.

**560-6 (3,3) Calculus of Variations.** An introduction to the basic concepts and techniques of the calculus of variations including the classical necessary conditions for an extremum of a functional, general end point conditions, the second variation, fields, sufficiency conditions, and applications. Must be taken in a,b sequence. Prerequisite: 452c.

**580-9 (3,3,3) Mathematical Methods of Statistics.** A presentation of probability and statistical inference based on an axiomatic and employing advanced mathematical concepts. Topics include the theory of measure and integration in  $R_n$ , foundations of probability, random variables and distributions in  $R_n$ , sampling distributions, tests of hypotheses, theory of estimation. Must be taken in a,b,c sequence. Prerequisite: 452c.

**592-2 to 4<sup>1</sup> Research in Mathematics Education.** Critical study of research papers in the field of secondary mathematics education. Training in research and writing techniques as they pertain to the secondary mathematics program. Prerequisite: consent of chairman.

**595-1 to 10 Special Project.** An individual project, including a written report. (a) in algebra; (b) in geometry; (c) in analysis; (d) in probability and statistics; (e) in mathematics education; (f) in logic and foundations; (g) in topology.

**599-1 to 9 Thesis.** Minimum of 5 hours to be counted toward the Master of Arts degree.

**600-1 to 48 Dissertation.** Minimum of 36 hours to be earned for the Doctor of Philosophy degree.

<sup>1</sup> These courses are open to candidates for the Master of Science in Education degree in mathematics, to National Science Foundation Institute participants, and to those who have received the consent of the chairman of mathematics or the director of the institute.

## Microbiology

**401-1 Seminar.**

**403-5 Medical Bacteriology.** A general survey of the mechanisms of infection, epidemiology, and immunity and the specific application of these principles to the symptomatology, diagnosis, treatment, and control of the more common bacterial infections of man. 3 hours lecture and 4 hours laboratory. Prerequisites: 301, 302 or equivalent.

**422-5 Microbiology of Foods.** The relationships of microorganisms to the preparation and preservation of foods with consideration of the laws governing sanitation, chemical preservatives, and fair dealing of the food producer. 3 hours lecture, 4 hours laboratory. Prerequisite: 301.

**423-5 Industrial Fermentation.** The application of the chemical activities of microorganisms to the industrial production of beverages, foods, antibiotics, and various commercial chemicals. 3 hours lecture, 4 hours laboratory. Prerequisites: 301 and organic chemistry.

**425-3 Biochemistry and Physiology of Microorganisms.** The chemical basis of physiological functions in microbial cells with emphasis on the pathways of metabolism common to all living things. 3 hours lecture. Prerequisites: 301 and organic chemistry.

**426-3 Biochemistry and Physiology of Microorganisms.** 4 hours laboratory. Prerequisite or corequisite: 425.

**441-6 Virology.** Properties, cultivation and titration of viruses and rickettsiae; cellular infection, multiplication and liberation of virus; immunological reactions and serological identification; hemagglutination and interference phenomena. Consideration of selected viral and rickettsiae diseases of animals. 3 hours lecture, 6 hours laboratory. Prerequisite: 403.

**451-3 Immunology.** Lecture. Prerequisite: 403.

**452-3 Immunology.** Laboratory. Prerequisite: 403.

**461-5 Genetics of Bacteria and the Viruses.** Genetic mechanisms, mutation, transformation, recombination, transduction, lysogeny, phenotypic mixing, and reactivation phenomena. 3 hours lecture, 4 hours laboratory. Prerequisite: 302.

**462-3 Fungal Genetics.** Mendelian and molecular genetics of neurospora and



yeast. Mutant induction, sexual crosses, tetrad analysis, linkage, and mapping. Prerequisite: GSA 201.

**500-1 Seminar.**

**502-4 (2,2) History of Genetics.** Critical examination of the development of genetic thought. Prerequisite: consent of instructor.

**503-2 Cytology of Microorganisms.** Problems involved in the behavior of chromosomes at meiosis with special consideration of genetical data. 2 hours lecture.

**504-5 Methods of Microbiological Research.** The recognition and plan of attack upon unsolved problems in microbiology. 3 hours lecture and 4 hours laboratory.

**511-1 to 15 Research.**

**525-3 Biochemistry and Physiology of Microorganisms.** A continuation of 425. 3 hours lecture.

**526-2 Biochemistry and Physiology of Microorganisms.** A continuation of 426. 4 hours laboratory. Prerequisite or corequisite: 525.

**528-1 to 10 Readings in Microbiology.** Supervised readings for qualified graduate students.

**541-6 Advanced Virology.** Interactions between bacterial and animal viruses and their host cells; sequential synthesis of macromolecular components of viruses; synthesis of interferon; experimental carcinogenesis; genetic recombination among viruses. Three hours lecture, 6 hours laboratory. Prerequisite: 441.

**599-3 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree.

**600-3 to 48 Dissertation.** Minimum of 36 hours to be earned for the Doctor of Philosophy degree.

## Music

**411-9 (3,3,3) Music Literature.** (a) Symphonic: A study of the development of the symphony and the symphonic poem. (b) Choral: The literature of the larger vocal forms such as the cantata and oratorio. (c) Chamber Music: Study of chamber music from the Renaissance to the present.

**414-2 to 6 Collegium Musicum.** Practicum in the preparation and performance of music from early times to the classical period. Prerequisite: Music major and/or consent of the department.

**420-1 to 3 Music Education Practicum.** A shop-laboratory course dealing with the selection, adjustments, maintenance, and repair of musical instruments. Prerequisite: consent of instructor.

**430-2 Stage Band Arranging.** The study and analysis of jazz harmony, melody, and rhythm as applied to modern instrumentation. Workshop wherein arrangements are written and played. Prerequisite: 309a.

**431-2 Organization and Development of the High School Stage Band.** The relationship of the stage band to the overall music program; instrumentation; sources of music; types of presentations; rehearsal techniques; study of the effective application of dynamics, phrasing, intonation, and balance for improved performance. Prerequisite: 430.

**440-1 to 4 Private Applied Music.**

- a. Violin
- b. Viola
- c. Violoncello
- d. String Bass
- e. Flute
- f. Oboe
- g. Clarinet
- h. Bassoon
- i. Saxophone
- j. Percussion

- k. Piano
- l. French Horn
- m. Trumpet
- n. Trombone
- o. Tuba
- p. Baritone
- q. Voice
- r. Organ
- s. Harpsichord
- t. Harp

Applied music for graduate credit is offered at the 400 and 500 levels in the areas listed above. Credit is given at 1 to 4 hours per quarter on each level. May be repeated each quarter of graduate study. Students with majors in performance usually take 4 hours per quarter at the 500 level; majors in music education and all minors usually take 2 hours at the 400 level. Prerequisite for 440 and 540: audition or consent of instructor.

**441-6 (2,2,2) Counterpoint.** (a) 16th Century Counterpoint. Species counter-

point and creative writing in the style of Palestrina and his contemporaries. Prerequisite: 205c or consent of instructor. (b) 18th Century Counterpoint. Analysis and creative writing in the contrapuntal-harmonic technique of Bach and his contemporaries. Prerequisite: 205c or consent of instructor. (c) Canon and Fugue. Analysis and creative writing of the larger imitative forms. Prerequisite: 441b.

**444-6 (2,2,2) Intermediate Composition.** Required of undergraduates with concentration in theory-composition, culminating with original works in contemporary idioms. Taught by individual instruction. Prerequisites: 312c and consent of department.

**451-3 Teaching of General Music, Secondary School.**

**453-3 Choral Materials and Techniques.** Demonstration and performance of choral rehearsal procedures; developing tone, diction, blend, and balance; concert production; performance of selected choral materials appropriate for junior and senior high school. Prerequisite: consent of instructor.

**454-3 Instrumental Materials and Techniques.** Demonstration and performance of instrumental music rehearsal procedures; developing tone, articulation, blend, and balance; concert production; performance of selected choral materials appropriate for junior and senior high school. Prerequisite: consent of instructor.

**455-2 to 6 Elementary Music Education Workshop.**

**461-2 Teaching Techniques and Materials for the Beginning and Intermediate Levels.** Designed to meet the needs of applied students in which the problems of private studio teaching and college level teaching are discussed.

**462-2 Teaching Techniques and Materials for the Advanced Student.** Designed to meet the needs of applied students in which the problems of private studio teaching and college level teaching are discussed. (Continuation of Music 461.)

**465-9 (3,3,3) Development and Teaching of Strings.** Place and function of string education in the elementary and secondary schools. Techniques of heterogeneous and homogeneous string teaching. Developing and sustaining interest in the string program. Resource aids. Prerequisite: senior standing.

**481-2 to 6 Readings in Music Theory.**

**482-2 to 6 Readings in Music History and Literature.**

**483-2 to 6 Readings in Music Education.**

**499-1 to 3 Independent Study.** The capable student engages in original investigations with faculty specialists. May be repeated for credit. Prerequisite: consent of instructor.

**501-3 Introduction to Graduate Study in Music.** Basic bibliographical and historical research techniques in music theory, literature, and education.

**502-6 (2,2,2) Analytic Techniques.** Analysis of representative works chosen from the Baroque, Classical, Romantic, and Modern eras.

**503-3 to 4 Objective Research Techniques in Music Education.** Theory, techniques, and procedures of evaluating music aptitude and achievement; survey of current research investigations in music education. A minor original research project is required.

**504-3 Music of the Middle Ages and Renaissance.** Sacred and secular monody from its beginnings; the rise of polyphony; the development of instrumental and vocal forms in the Middle Ages and Renaissance.

**505-3 Music of the Baroque Period.** Opera, oratorio, cantata, and instrumental music in the period 1600 to 1750; the development of vocal and instrumental forms culminating in the works of Bach and Handel.

**506-3 Music of the Classical Period.** Development of opera, the symphony, the sonata, and chamber music in the 18th and early 19th century with particular emphasis on Haydn, Mozart and Beethoven.

**507-3 Music of the Romantic and Impressionistic Periods.** Development of opera, the symphony, the symphonic poem, the sonata, and chamber music in the 19th and early 20th centuries. Rise of nationalism and impressionism.

**508-3 Music of the Twentieth Century.** The heritage of 20th century music; study and analysis of musical philosophies of contemporary composers.

**509-3 The History and Philosophy of Music Education.** A study of the historical and philosophical evolution of music education and the identification of current forces, issues and trends influencing the profession.

**512-3 History of Opera.** The development of opera as a form, with a detailed study of operas since 1600.

**515-3 20th Century Literature.** A survey of contemporary music in Russia,



Western Europe, and the Americas in its relation to sociology, political, and cultural developments.

**518-3 Pedagogy of Music Literature.** Principles of teaching music literature and music appreciation courses at the college level.

**522-3 Seminar: Music History and Literature.** Advanced study in special periods of music history-literature.

**531-2 to 9 Advanced Composition.** Composition in the larger forms for solo and ensemble performance. Prerequisites: 312c, 342c, and consent of instructor. Required of all theory-composition majors 3 hours per quarter; elective credit for majors in other areas.

**535-3 Contemporary Idioms.** Techniques of composition developed during the 20th century by composers of Europe and America.

**540-1 to 4 Private Applied Music.** (See Music 440).

**545-3 to 9 Philosophies of Music Theory.** An orientation of the philosophies of theory to the problems of pedagogy. Required of all theory-composition majors.

**550-3 Administration and Supervision of Music.**

**551-2 to 4 Organization and Administration of Music—Secondary.**

**553-3 Seminar in Choral Materials and Techniques.**

**554-3 Seminar in Choral Materials and Techniques.**

**556-2 to 6 Advanced Conducting.** Problems in score reading and interpretation. Laboratory conducting of larger ensembles.

**560-2 to 4 Seminar in Music Education.** Trends, current practices, philosophies of music education.

**566-1 to 4 Instrumental Ensemble.** Participation in a chamber or large ensemble for purposes of studying and performing literature in the field of the major instrument other than solo literature.

**567-1 to 4 Vocal Ensemble.** Participation in a chamber or large ensemble for purposes of studying and performing literature in the field of the vocal music other than solo literature. Includes madrigal groups, choral ensembles, women's chorus, etc.

**568-2 to 12 Opera Workshop.** An intensive course in opera for voice majors, including the study and public performances of scenes and entire operas.

**599-3 to 9 Thesis.**

## Philosophy

**406-4 Philosophy of Biology.** Leading concepts of biological sciences: species, evolution, life, organism and part, etc. Abstract ideas of biology are related, wherever possible, to specific experiments recorded in scientific literature. Prerequisites: 300 or 320, and three laboratory or field courses in the biological sciences or consent of instructor.

**415-3 Logic of the Social Sciences.** Logical and epistemological examination of the social studies as types of knowledge. Basic problems in philosophy of science with major emphasis upon social science: relationship of theory to fact, nature of induction, nature of causal law, testability, influence of value judgments, etc. Intended for students with considerable maturity in a social science or in philosophy.

**420-4 Advanced Logic.** A careful study of symbolic and discursive systems of logic: Aristotle, Spinoza, Boole, Whitehead, and Johnson. Prerequisites: 320 and consent of instructor.

**428-3 Logic of the Exact Sciences.** Critical study of the technical and philosophical problems associated with formal logic and its uses as a tool for model construction, for formalizations, reconstructions, and as an image or rational thought. Prerequisite: 426 or consent of instructor.

**441-4 Philosophy of Politics.** (Same as Government 441.) Some of the central problems of modern political life, such as sovereignty, world government, authority and consent, the relations of economics and social studies to political theory. Prerequisite: GSC 102 or 340 or consent of instructor.

**443-4 Philosophy of History.** Classical and contemporary reflections on the nature of history and historical knowledge as the basis for dealing with the humanities. Prerequisite: consent of instructor.

**460-4 Advanced Philosophy of Art.** The definition of art, its relations to science, culture, and morals; the various types of art defined. Familiarity with



at least one of the fine arts is assumed. Prerequisites: GSC 207 or 360, and six courses in music, painting, sculpture, literature, or drama.

**477-4 Latin American Philosophy.** A survey of philosophic thought in Latin America from colonial times through 19th century positivism and the reactions against it, up to recent trends. Reading of original texts in English translations. Discussions and reports.

**478-4 Seminar in Latin American Thought.** (See Spanish 478.)

**481-6 (3,3) 19th Century European Philosophy.** (a) Kant, Schopenhauer, and Hegel. (b) Nietzsche, Bergson, the Utilitarians, and latter day idealists. May be taken singly and in any sequence.

**482-3 Recent European Philosophy.** Phenomenology, Positivism, Linguistic Analysis, and Existentialism.

**490-2 to 12 Special Problems.** Hours and credits to be arranged. Courses for qualified seniors and graduates who need to pursue certain topics further than regularly titled courses permit. Special topics announced from time to time. Students are invited to suggest topics for individual study and papers or for group study. Prerequisite: consent of instructor.

**500-2 to 4 Seminar in Metaphysics.** Study of recent writers and current problems in metaphysics with the intent of familiarizing the student with the traditional problems of the area.

**501-2 to 4 Seminar in the Philosophy of Religion.** Analysis of a selected problem in philosophical theology or the phenomenology of religion, or of the work of a particular thinker. Recent seminars have been on Paul Tillich and Henry Nelson Wieman.

**515-3 Theory of Nature.** A critical examination of the presuppositions of the Western view of nature as indicating the need for a revision of causal determinism and the reintroduction of freedom into the spatio-temporal world.

**530-2 to 4 Seminar in Theory of Knowledge.** Examination of a contemporary writer or problem in epistemology. Special emphasis is given to the problem of the reliability and structure of scientific knowledge.

**540-3 Philosophy of Journalism.** (See Journalism 540.)

**555-4 Philosophy of Higher Education.** (See Higher Education 555.)

**570-3 Seminar in American Idealism.**

**581-2 to 4 Seminar in Plato.** A thorough study of several of the dialogues. Lectures on the system of Plato as a whole, discussions and reports on the readings.

**582-2 to 4 Seminar in Aristotle.** The philosophic ideas of Aristotle. Intensive reading of several texts, illustrating widely varied portions of his thought.

**585-3 Seminar in British Empiricism.**

**586-2 to 4 Seminar in Spinoza.** Analysis of the **Improvement of the Understanding** and the **Ethics**. Lectures relating Spinoza to the medieval tradition and to his contemporaries. Discussions and reports.

**587-3 Seminar in Hegel.**

**588-2 to 4 Seminar in Kant.** The three great **Critiques** in their relation to the development of Kant's total philosophy. Intensive study of one of the **Critiques**.

**589-2 to 12, 590-2 to 12 General Graduate Seminar.** For students having special interests in the history of philosophy and the original systematic development of philosophic ideas. Prerequisite: consent of instructor.

**591-1 to 5 Readings in Philosophy.** Supervised readings for qualified students. Consent of instructor required.

**599-2 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree.

**600-3 to 48 Dissertation.**

## Physical Education

**400-4 Evaluation in Physical Education.** Historical background of measurement in physical education; selection and evaluation of contemporary testing devices; structure and use of tests; administering the testing program; and interpretation and application of results. Fulfills the tests and measurements course requirements for the Master of Science in Education degree.

**402-2 Organization and Administration of Intramural and Extramural Activities.** Planning intramural programs of sports; planning and coordinating extramural activities commonly associated with physical education.

**403-4 The Adaptation of Physical and Recreational Activities to the Handi-**

**capped Individual.** Recognition of postural deviations; devising and planning programs for the physically atypical.

**404-2 to 4 The Teaching of Sports.** Teaching methods, officiating, organization, safety precautions, and selecting equipment for sports.

**406-4 Basic Concepts of Physical Education.** The place of physical education in the school program, and the concepts underlying the program. (Required of all students not presenting the undergraduate courses 354 or 340.)

**407-4 Scientific Basis of Athletic Training.** Study of the factors which affect maximum human performance in athletic competition. The knowledge and application of scientific principles in preparing the athlete for maximum performance, in shielding him from possibly damaging sequelae, and in restoring him to maximum performance after injury. Consideration of the kinesiological, physiological, and behavioral factors in athletics. Designed to increase the effectiveness of physical education personnel in teaching and coaching athletics.

**408-2 to 4 Physical Fitness—Its Role and Application in Education.** Improvement of programs and teaching techniques involved in the development of various aspects of physical fitness. Units on postural status; body weight control; tension factors, causes, and control; exercise tolerance; and general body mechanics and control.

**416-4 Current Theories and Practices in the Teaching of Dance.** (Same as Theater 416.) History and evolution of dance; place of dance in education.

**420-4 Physiologic Effects of Motor Activity.** The general physiological effects of motor activity upon the structure and function of body organs; specific effect of exercise on the muscular system. Prerequisite: Physiology 209 or equivalent.

**444-2 to 8 Contemporary Dance Workshop.** Dance technique and theory, composition, improvisation, and production. Advanced study of the problems of choreography and production in their presentation as theater. Public performance is required. Prerequisite: one year of technique and theory or equivalent.

**475-2 to 4 Individual Research.** The selection, investigation and writing of a research topic under supervision of an instructor. (a) Dance, (b) kinesiology, (c) measurement, (d) motor development, (e) physiology of exercise, (f) history and philosophy.

**500-4 Techniques of Research.** Critical analysis of research literature; study of research methods and planning research studies. Prerequisite: 400 or concomitant registration in 400.

**501-4 Curriculum in Physical Education.** Principles and procedures for curriculum construction and revision; criteria for selecting activities and judging outcomes and the place of the physical education course of study within the total curriculum.

**502-4 Foundations of Motor Skills.** Application of physiological, kinesiological, and mechanical principles to intelligent control of large-muscle activities. Recommended background: a course in kinesiology.

**503-4 Seminar in Physical Education.** The course content and its procedures center around group discussions of controversial issues that currently exist in physical education and provide opportunities for practice in seeking unbiased solutions to professional problems.

**504-4 Problems in Physical Education.** Planning, conducting, and reporting original research studies. Prerequisite: 500 or equivalent.

**508-3 Administration of Interscholastic Athletics.** Existing problems in interschool athletics, with particular attention to secondary school athletic programs.

**509-4 Supervision of Physical Education.** The functions of supervision in physical and health education; basic principles and methods of supervision. Techniques and methods for increasing the effectiveness of the program at the elementary and high school levels.

**510-4 (2,2) Motor Development.** (a) Early patterns of motor behavior and the development of physical skills in childhood. (b) The development of physical abilities during adolescence. Individual differences in motor proficiency and factors affecting the acquisition of motor skills. Concepts of motor learning with inferences for improving instructional practices.

**511-2 Analysis of Human Physical Movement.** Basic human movements as performed by individuals of different ages will be analyzed, and understand-



ing of motor development at varying levels of skill in sports and dance will be analyzed.

**520-4 Metabolic Analysis of Human Activity.** Basic principles of oxygen utilization and work evaluation based on man's limited and variable physical efficiency. Includes the study of large muscle activity through electronic and volumetric techniques of respiration gas analysis. Laboratory arranged. Prerequisite: 420.

**525-1 to 6 Readings in Physical Education.** Supervised reading in selected subjects. Prerequisite: consent of instructor and chairman of department. Open only to last-quarter seniors and graduate students.

**599-1 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree.

**600-2 to 48 Dissertation.** Minimum of 36 hours to be earned for the Doctor of Philosophy degree.

## Physics

**401-3 Mechanics.** Rigid body mechanics, normal coordinates, mechanics of continuous media, and advanced principles. Prerequisites: 301, Mathematics 407.

**404-6 (3,3) Physical Electronics.** Kinetic theory and statistical mechanics with applications to electronic conduction in solids, vacuum, and gases, electron emission and ballistics; Bose-Einstein and Fermi statistics, electron theory of metals; semiconductors; quantum physical phenomena of the solid state. Prerequisites: 304, 305, 401 or consent of instructor.

**405-3 Electronics.** Advanced theory and application of vacuum tubes and semiconductor devices as circuit elements in power supplies, oscillators, amplifiers, and shaping circuits. Prerequisites: 305 and 309 or consent of instructor.

**410-6 (3,3) Introduction to Electromagnetic Wave Theory.** A theoretical study of electromagnetic wave generation, propagation, and detection, with applications to microwaves and modern optics. Prerequisite: 305, 310.

**415-12 (3,3,3,3) Modern Physics.** Elements of wave mechanics, special relativity, atomic, molecular, and nuclear physics. Prerequisites: 301, 305, Mathematics 407 or consent of instructor.

**418-1 to 4 Modern Physics Laboratory.** Advanced laboratory work with pulsed and continuous lasers and optical detectors, nuclear magnetic resonance, nuclear spectroscopy, vacuum techniques, mass and beta spectroscopy, and semiconductor physics.

**420-2 to 5 Special Projects.** Each student is assigned to a definite investigative topic. Adapted to advanced undergraduate students. Prerequisites: 301, 305.

**447-5<sup>1</sup> Topics in Classical Physics.** Assists experienced teachers to improve their understanding of classical physics and the strategy of presenting it. Emphasis on demonstration of phenomena as basic strategy in the introduction of new material. Attention given to the design of demonstration apparatus. Related laboratory experience is an integral part of the course. Prerequisite: consent of department.

**448-5<sup>1</sup> Topics in Modern Physics.** Assists experienced teachers to extend their understanding of modern physics. Lectures and demonstrations aim at improvement of the means of presenting the ideas of modern physics. Related laboratory experience is an integral part of this course. Prerequisite: consent of chairman of department.

**449-3<sup>1</sup> In-Service Institute for Teachers of Physics.** A series of lectures, demonstrations, discussions, and films to assist teachers of high school physics in meeting their classroom problems and responsibility. Prerequisite: consent of chairman of department.

**504-12 (4,4,4) X-Ray Diffraction and Lattice Dynamics.** (See Applied Science 504.)

**510-9 (3,3,3) Classical Mechanics.** Variational principles and Lagrange's equations; rigid body motion; special relativity; canonical equations, small oscillations including non-linear problems; perturbation methods; classical theory of field. Prerequisite: 401.

**511-9 (3,3,3) Mathematical Methods of Physics.** Elements of theory of analytic functions; differential equations and special functions of mathematical physics; solutions of boundary value problems by Hilbert space expansion. Prerequisite: Mathematics 407 or equivalent, or consent of instructor.



**520-2 to 5 Special Projects.** Each student assigned a definite investigative topic requiring resourcefulness and initiative. Prerequisite: consent of instructor.

**530-9 (3,3,3) Electromagnetic Theory.** Maxwell's Formalism of classical electromagnetism, application of electrostatics, magnetostatics, electrodynamics and radiation problems. Prerequisite: 305.

**531-9 (3,3,3) Quantum Mechanics.** Wave mechanics, matrix mechanics, transformation theory of quantum mechanics; angular momentum, perturbation theory, scattering theory. Prerequisites: 415, Mathematics 407 or consent of instructor.

**532-9 (3,3,3) Advanced Quantum Mechanics.** Introduction to quantum field theory, with emphasis on the quantum theory of radiation; covariant quantum electrodynamics; special topics, depending on the interests of students. Prerequisites: 531 and consent of instructor.

**540-9 (3,3,3) Nuclear Physics.** Fundamental properties and systematics of nuclei, scattering theory, the nuclear two body problem, nuclear models, electromagnetic properties of nuclei, particle radioactivity, nuclear reactions, the optical model. Prerequisite: consent of instructor.

**550-9 (3,3,3) Atomic and Molecular Spectra.** Detailed quantum mechanical treatment of atomic and molecular spectroscopy. Prerequisite: consent of instructor.

**560-9 (3,3,3) Statistical Mechanics.** Principles of classical and quantum equilibrium statistics; fluctuations; applications to specific problems of physics. Prerequisite: consent of instructor.

**570-9 (3,3,3) Solid State Physics.** Fundamental concepts in solid state physics from advanced viewpoint, with illustrations drawn from current research. Prerequisite: consent of instructor.

**575-1 to 4 Graduate Seminar.** Lectures on special topics to be given when a demand arises. Prerequisite: consent of instructor.

**580-3 to 6 Selected Topics in Physics.** Topics of special interest. Prerequisite: consent of instructor.

**590-1 to 9 Thesis.**

<sup>1</sup> Open to teachers of high school physics, to National Science Foundation Institute participants, and to others who have received the consent of the chairman of the Department of Physics or the director of the institute. May count toward the Master of Science in Education degree with approval of the Department of Secondary Education.

## Physiology

**410-15 (5,5,5) Advanced Anatomy.** Dissection of the human body. Primarily for majors in physiology and other biological sciences. Not a premedical course. 2 hours lecture, 6 hour laboratory.

**414-4 Anatomy and Physiology of Speech and Hearing Mechanisms.** The anatomy and physiology of the vocal apparatus. Primarily for majors in speech pathology. 3 hours lecture, 2 hours laboratory.

**415-8 (4,4) Experimental Animal Surgery.** (a) Preparation of animals for surgery. Anesthesia, instruments, care of animal quarters, selected exercises. (b) Special surgical exercises. 2 hours lecture, 4 hours laboratory. Part b may be elected independently of a only by permission of the chairman.

**417-6 (3,3) Principles of Pharmacology.** Action of drugs and other chemical substances upon the living organism. Physiological and biochemical events resulting from the action of drugs. Pharmacodynamics, chemo-therapy, toxicology, and therapeutics. Prerequisites: basic courses in chemistry and biological sciences. 2 hours lecture, 2 hours laboratory.

**430-12 (4,4,4) Cellular Physiology.** The nature and mechanism of the living cell. Chemical and physical aspects of vital activity. Required for graduate majors in physiology. Recommended for students interested in biochemistry and biophysics. 3 hours lecture, 2 hours laboratory.

**433-4 Comparative Physiology.** Fundamental physiological processes and the manner in which they vary in various groups of animals. Recommended for majors in physiology and for students in other biological science. 3 hours lecture, 2 hours laboratory.

**440-3 Electron Microscopy.** Lectures, demonstrations, and practical experience with the electron microscope. Fundamentals of specimen preparation.

Open to students with advanced knowledge of any natural or physical science. 2 hours lecture, 2 hours laboratory.

**450-4 to 16 Special Problems in Physiology—Honors.** Eight hours laboratory. Required for undergraduate honors students. Prerequisite: consent of department.

**460-12 (4,4,4) Mammalian Physiology.** Function and biochemical organization in mammals, especially man. Open to students with adequate courses in biological sciences and chemistry. (a) Blood, circulation, respiration. (b) Digestion, excretion, endocrines. (c) Muscles, nervous system sense organs. 3 hours lecture, 4 hours laboratory.

**465-6 (3,3) Biophysics.** Application of the analytic methods of the physical sciences to physiology. Molecular aspects of control systems governing vital processes. Prerequisite: one year of physics. 3 hours lecture.

**471-9 (3,3,3) Biophysical Instrumentation.** Principles of electronics, accenting solid state circuit designs that apply to biophysics. Circuit construction for biophysical instruments is included. Prerequisite: 1 year of physics and consent of instructor.

**500-1 to 9 Advanced Seminar.** One meeting per week, 1 credit per quarter. Formal presentation of research and/or current literature in physiology. Required of all majors each quarter in residence.

**519-3 Experimental Pharmacology.** Exercises to familiarize the student with advanced physiological investigation. Prerequisite: strong background in chemistry and the biological sciences. 2 hours lecture, 2 hours laboratory.

**520-9 (3,3,3) Physiological Techniques.** Three terms of biophysics. (a) Analysis of protoplasmic components of tissue extracts under a variety of physiological conditions using chemical and physical procedures. (b) Gas analysis and metabolic methods in physiology. (c) Instrumentation for the recording of the physiologic activity of living tissues and organs. Use of channel recorders. Prerequisite: undergraduate concentration in any of the biological or physical sciences. 2 hours lecture, 4 hours laboratory.

**521-1 to 6 Readings in Current Physiological Literature.** Open only by consent.

**540-8 (4,4) Advanced Comparative Physiology.** Physiological processes among animals. Prerequisites: courses in chemistry and biological sciences. 3 hours lecture, 2 hours laboratory.

**550-3 Radiation Biology.** Theory and specific applications of isotopes in physiology emphasized, and opportunity given to learn how to handle radioactive materials in the laboratory. 2 hours lecture, 2 hours laboratory. Prerequisites: general physics and biochemistry or equivalent.

**565-3 Biophysics.** Application of the analytic methods of the physical sciences to physiology. Molecular aspects of control systems governing vital processes. 3 hours lecture. Prerequisite: one year of physics.

**599-3 to 9 Thesis.** 9 hours to be counted toward a master's degree.

**600-4 to 36 Doctoral Dissertation.** A maximum of 36 hours may be counted for the doctor's degree.

### Plant Industries

**401-4 Soil Physics.** Physical properties of the soil; factors affecting them, their measurements, evaluation, and their influence in determination of soil productivity. Prerequisite: 103 or 301.

**402-4 Soil Morphology and Classification.** Morphology and soil formation, description and identification of soil profiles, classification of soils, techniques of soil mapping, and interpretation of survey data. Field trips cost not more than \$10. Prerequisite: 103 or 301.

**404-3 Turf Management.** Principles and methods of establishing and maintaining turf for homes, recreational areas, and public grounds. Study of basic plant and soil materials, fertility, culture, water management, and pest control as related to turfgrasses in variable environments. Field trips cost not more than \$2. Prerequisite: GSA 201b or equivalent.

**406-4 Radioisotopes, Principles and Practices.** Lectures on the principles of radioisotope technology as applied to agricultural and biological sciences. Prerequisites: biochemistry, physiology or consent of department.

**407-5 (3,2) Fertilizers and Soil Fertility.** (a) Lecture. The uses of fertilizer materials; effects of various fertilizers on soils and crops; fertility maintenance



and soil management. Prerequisite: one course in soils. (b) **Laboratory.** The laboratory study of the chemistry and fertility of soils. Parallels the theoretical presentation given in 407a. Prerequisites: 407a or concurrent enrollment.

**408-4 World Crop Production.** Ecological and physiological considerations used in the interpretation of crop research data, with emphasis on modern developments and trends in production and research of major agronomic crops. Prerequisite: 309.

**415-3 Plant Breeding.** The relationships among certain aspects of genetics, plant anatomy, developmental morphology and cytology and their application to breeding of horticultural, agronomic, and forest plants. Induction and utilization of mutations, including polyploidy, is emphasized. Prerequisite: any course in basic genetics.

**418-4 Weeds and Their Control.** Losses due to weeds, their identification and distribution, methods of weed dissemination and reproduction. Mechanical, biological, and chemical control of weeds. "Bioactivity of herbicides." State and federal legislation pertaining to weed control herbicides. Herbicide commercialization. Field trips. Prerequisite: GSA 201b.

**419-4 Forage Crop Management.** Forage production and utilization; forage crop characteristics, breeding, and ecology; grasslands as related to animal production, soil conservation, crop rotation, and land use. Prerequisite: GSA 201b.

**424-5 (3,2) Soil Microbiology. (a) (Lecture).** (Same as Microbiology 424.) A study of the numbers, characteristics, and biochemical activities of soil microorganisms, with particular consideration of their role in the transformations of organic matter, nitrogen, and minerals as related to soil fertility and management. Prerequisites: one course in microbiology or soils. (b) **(Laboratory).** Experiments designed to determine numbers, and to study the characteristics and biochemical activities of the soil microflora as related to fertility. Prerequisites: 424a, or concurrent enrollment, Microbiology 301.

**438-5 Vegetable Production.** Studies of the effects of physiological and morphological factors affecting the culture, harvesting and marketing of commercial vegetables. Prerequisites: Plant Industries 264, GSA 201b or equivalent.

**440-3 Plant Propagation.** Fundamental principles of asexual and sexual propagation of horticultural plants. Actual work with seeds, cuttings, grafts, and other methods of propagation. Prerequisites: 264, GSA 201b, or consent of department.

**455-5 Plant Pathology.**

**456c-2 Agricultural Marketing Problems and Practices—Field Crops.** (See Agricultural Industries 456c.)

**456e-2 Agricultural Marketing Problems and Practices—Horticultural Crops.** (See Agricultural Industries 456e.)

**506-2 Laboratory Methods for Radioisotopes.** Laboratory exercises giving the students experience in instrumentation, measurements, and the safe handling of isotopic materials. Prerequisite: 406 or consent of department.

**507-3 Advanced Soil Fertility.** Theoretical principles of soil fertility; evaluation of research data and methods used in soil fertility research. Prerequisite: 407a.

**520-1 to 6 Readings.** Contemporary books and periodicals on selected subjects within the fields of plant industries. Prerequisite: consent of department.

**575-1 to 6 Research.** Directed research on approved projects investigating selected fields of the plant industries. Prerequisite: consent of department.

**581-1 to 6 Seminar.** Group discussions of and individual papers on subjects and problems relating to soils, field and horticultural crops, and other phases of the fields of the plant industries. Prerequisite: consent of department.

**590-1 to 4 Special Studies in Plant Industries.** Directed study in specialized areas of crop production, horticulture, or soils depending on the program of the student. Discussions, seminars, readings, and instruction in research techniques. Prerequisite: consent of department.

**599-6 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree. Prerequisite: consent of department.

## Psychology

**404-4 Theories of Perception.** An examination of the different theories con-



cerned with an organism's sensory contact with his environment. Physiological, social, and organizational theories of perception will be considered. Prerequisite: 211b or consent of instructor.

**407-4 Theories of Learning.** A consideration of the major contemporary learning theories and their relation to experimental data. Prerequisite: 211b or consent of instructor.

**408-4 Theories of Motivation.** An examination of instinct theories, biological drives, emotions, social motives, and psychodynamic theories as they contribute to a comprehensive psychology of motivation. Prerequisite: 211b or consent of instructor.

**421-4 Psychological Tests and Measurements.** Principles of psychological measurement, including errors of measurement, techniques for estimating reliability and validity, techniques of test construction, and problems in assessment and prediction. The laboratory will include the use of selected instruments. Lecture and laboratory. Prerequisite: 8 hours of psychology.

**425-4 Mathematical Psychology.** A survey of mathematical models of behavior, elementary models of learning, perception, and decision making are examined with a view towards introducing the student to the literature in mathematical psychology. Prerequisite: Mathematics 410a, 421a, 480a or consent of instructor.

**431-4 Psychopathology.** Classification, description, etiology and treatment of the disorders of personality organization and behavioral integration. Observations in a state mental hospital setting. Prerequisite: 305 or consent of instructor.

**440-4 Theories of Personality.** A review and critical evaluation of major personality theories and their supporting evidence. Prerequisite: 305 or consent of instructor.

**451-4 Advanced Child Psychology.** An examination of the concepts, methods, and problems of human development with consideration of both its psychological and psychosocial aspects. Prerequisite: 301 or 303 or consent of instructor.

**459-4 Theory and Practice in the Preschool.** Designed for those in nursery education and related fields. Examines variety of topics and provides lectures, demonstrations, and practicum experience in the Child Study Cooperative Nursery. Prerequisite: consent of instructor.

**461-4 Advanced Social Psychology.** Examines current areas of interest in the study of social behavior: language behavior, communication, social influence, attitude change, interpersonal perception, etc. Emphasis is on the individual in the social context. Prerequisite: 307 or consent of instructor.

**465-4 Group Dynamics and Individual Behavior.** Examination of research and theory in the area of small-group interaction. Examines such topics as group structure and function, group problem-solving, leadership, etc. Prerequisite: 307 or consent of instructor.

**490-1 to 16 Independent Projects.** Independent readings and projects in psychology. Prerequisite: consent of instructor and chairman.

**495-1 to 18 Seminar: Selected Topics.** Varied content. To be offered from time to time as need exists and as faculty interest and time permit. Prerequisite: consent of chairman.

**509-4 Instrumentation in Behavioral Science.** Study of methods of research instrumentation. Techniques of stimulation and of physiological and psychological response recording. Lecture and laboratory. Prerequisite: consent of instructor.

**510-4 History and Systems.** Study of the important antecedents of contemporary scientific psychology. Considers issues, conceptual developments, and research advances, and presents the major schools and systems. Prerequisite: signed consent of psychology adviser.

**512-4 Sensory Processes.** A study of the structure and functions of the sense organs. Emphasis will be placed on the psychological data which describe the function of these organs. Lecture and laboratory. Prerequisite: consent of instructor.

**514-8 (4,4) Physiological Psychology.** Study of neural and endocrine mechanisms underlying behavioral processes. Lecture and laboratory. Prerequisite: consent of instructor.

**516-4 Learning Processes.** Processes by which individual behavior is changed, using procedures developed in the learning laboratory. Introduction to major concepts and data of learning. Prerequisite: consent of instructor.



**522-4 Research Design and Inference III.** Advanced design and analysis of psychological experiments. Analysis of variance in complex designs, analysis of covariance, and trend analysis. Prerequisite: Mathematics 410B.

**523-2 Research Seminar. Evaluation of Research.** A study of principles of research design from the point of view of the scholar reading the journals.

**524-4 Multivariate Methods in Psychology.** A detailed coverage of psychometric methods, with special emphasis on the theory and applications of multivariate regression analysis. Includes an introduction to factor analysis. Prerequisite: 522.

**525-4 Mental Test Theory.** Derivation of the basic psychometric equations, effects of test length and group heterogeneity on test parameters, criteria of parallel tests, weighting and differential prediction. Prerequisite: 524.

**526-4 Experimental Design in Psychology.** Consideration of the logic of psychological experimentation. Topics include randomization as related to experimental inference, complex designs used in experimental psychology, the use of concomitant information in experiments, faults and refinements in common psychological designs. Prerequisite: 522, Mathematics 410a,b.

**530-4 Personality Theory and Dynamics.** Intensive treatment and critical analysis of several representative approaches to personality. Consideration also of important personality concepts common to most theoretical approaches. Prerequisite: consent of instructor.

**531-2 to 4 Advanced Psychopathology.** Consideration of special topics, including psychological theories of the nature and etiology of human pathology, assessment of pathology, and institutional care and treatment. Includes extensive field experience in a mental hospital setting. Prerequisite: 530, 541, 541b, and consent of instructor.

**532-2 Experimental Approaches to Personality.** Presentation of conceptual formulations and research data from representative experimental approaches to personality. Critical evaluation of methodological approaches to personality study. Prerequisite: 530 or consent of instructor.

**533-3 Experimental Approaches to Psychopathology.** An examination of the research literature on several issues in clinical psychopathology. Prerequisite: consent of instructor.

**536-4 Fundamentals of Counseling.** Introduction to the common assumptions, dimensions, and communicative skills underlying psychological counseling. Observation utilized to supplement didactic discussion. Lecture and demonstration. Prerequisite: consent of instructor.

**537-4 Counseling and Psychotherapy.** Systematic presentation of major approaches to counseling and psychotherapy. Consideration of salient aspects of the therapeutic situation and of the process and nature of changes during psychotherapy. Critical evaluation of both theory and practice. Consideration of research findings and problems. Prerequisite: consent of instructor.

**538-2 Group Psychotherapy.** Presentation of major approaches to group psychotherapy. Prerequisites: 537 and consent of instructor.

**539-4 Experimental Approaches to Psychotherapy.** A review and evaluation of empirical research related to the amelioration of maladjustment. Emphasis is on measurement and methodological problems. Prerequisite: 536, 537, or consent of instructor.

**541-4 Psychodiagnostics I.** Introduction to clinical psychology with attention to the function and clinical use of individual intelligence tests. Theories of intelligence and related research. Age scales with emphasis on infant and child testing. Point scales and tests of deterioration with emphasis on child and adult testing. Lecture and practicum. Prerequisites: Mathematics 410 and consent of instructor.

**543-6 (4,2) Psychodiagnostics II.** Basic theory and assumptions underlying projective methods. Use of projective techniques as measures of personality and as tools for clinical diagnosis and research. (a) Thematic projective techniques. (b) Rorschach and Bender-Gestalt. Lecture and practicum. Prerequisite: 541 or consent of instructor.

**545-2 Psychodiagnostics III.** Nature and theory of questionnaires for personality assessment and psychodiagnosis. Consideration of their use in clinical research. Lecture and practicum. Prerequisite: consent of instructor.

**547-4 Assessment Procedures in Counseling.** Use and integration of psychological test data, vocational, socio-economic, and educational information in assessment and counseling. Prerequisite: 421 or consent of instructor.

**552-4 Experimental Child Psychology.** Consideration of relationship of meth-

odology to child theory, typical methodological procedures and problems specific to children, and representative research topics. Prerequisite: 451 or consent of instructor.

**554-2 Developmental Theory.** Systematic study and critical evaluation of representative theories of child behavior. Prerequisite: 451 or consent of instructor.

**556-2 Psychological Treatment of the Child.** Investigation of personality and behavior problems. Etiological factors and methods of treatment. Prerequisite: 451 or consent of instructor.

**561-4 Social Influence Processes.** Critical review of theoretical and empirical developments in the study of influence processes, attitude change, etc. Social and intrapersonal determinants are examined. Prerequisite: 461 or consent of instructor.

**562-4 Observational Techniques and Content Analysis.** Examination and evaluation of research methods and measurement techniques utilized in social psychology. Prerequisite: 461 or consent of instructor.

**564-4 Communication and Group Behavior.** Emphasis in this course is on language behavior and the psychological study of the communication process. Examines theories, methods and research in these areas. Prerequisite: 471 or consent of instructor.

**571-4 Industrial Motivation and Morale.** A review of the factors which determine motivation and morale as well as their measurement and evaluation. Prerequisite: 320 or consent of instructor.

**572-4 Industrial Training.** A systematic consideration of the methods of industrial training and development on the production, supervision, and decision-making levels. Prerequisite: 320 or consent of chairman.

**573-2 Selection and Placement.** Selection and validation of test batteries, use of the interview and personal history data in selection, quota, and classification problems, administration of a selection program. Prerequisite: 524 or consent of instructor.

**574-2 Psychology of Industrial Relations.** Analysis of psychological factors involved in industrial organization, employer-employee relations, and union-management relations. Prerequisite: 571 or consent of instructor.

**576-2 to 4 Human Engineering.** Analysis of man-machine systems, human factors in the design of display and control systems, limitations and capabilities of the human operator. Prerequisite: consent of chairman.

**579-4 Animal Behavior.** (See Zoology 579.)

**581-4 Psychophysical Methods.** Survey of the major psychophysical methods and their applications. Lecture and laboratory.

**590-1 to 16 Readings in Psychology.** Readings in selected topics in psychology under staff supervision. Prerequisite: consent of chairman.

**591-1 to 36 Research in Psychology.** Research under staff supervision in selected areas of psychology. Prerequisite: consent of the chairman.

**593-1 to 18 Practicum in Psychology.** Practicum experience in a professional setting is offered under staff supervision in the following areas: (e) Clinical Psychology, (f) Counseling Psychology, (h) Industrial Psychology, (j) Child Psychology, (l) Teaching of Psychology.

**595-1 to 18 Advanced Seminar.** Seminars of varied content for advanced students. Prerequisite: consent of chairman.

**598-2 Ethical and Professional Problems in Psychology.** Problems in the professional practice of psychology and in teaching and research. Professional ethics, relations to other professions and the public, organization and structure of the field, current trends. Prerequisite: major in psychology or consent of instructor.

**599-1 to 9 Thesis.**

**600-1 to 45 Dissertation.**

### **Recreation and Outdoor Education**

**413-4 Safe and Healthful Living Outdoors.** Areas to be included are foods, sanitation, survival, plants and animals, natural hazards, emergency care, water, riflery, and others. Prerequisites: 334, and at least 10 hours of biological sciences.

**425-3 Recreation Areas and Facilities.** Principles of planning, construction,



management and maintenance of shelters, utilities, sanitation structures, erosion control, and other related problems.

**470-4 School and Community Recreation.** The role of the public schools in community recreation. Emphasis on current practices and trends in curriculum content, adult education, extracurricular activities, after-school and vacation programs, and cooperative programs with other agencies.

**490-4 to 16 Practicum in Recreation and Outdoor Education.** Supervised practicum experience in a professional setting. Emphasis on administrative, supervisory, teaching and program leadership in various laboratory situations related to recreation and/or outdoor education.

**500-4 Principles of Recreation.** Principles and interpretations of recreation and the basic concepts underlying the organization of leisure activity. Emphasis on cultural significance of recreation and the relationship of recreation to the totality of life.

**510-4 Outdoor Education Workshop.** Leadership development for outdoor education and its place in the school program. Methods of utilization of natural and cultural resources for enrichment of the school curriculum.

**520-4 Recreation Administration Workshop.** Bases for planning community programs in recreation. Administrative problems including legislation, finance and budget, office management, public relations, and personnel are considered through application of principles.

**525-4 Special Population Workshop.** Basis for planning, organization, selection, evaluation, and adaption of activities to a variety of institutional and community recreation settings.

**540-4 Recreation Surveys and Planning of Facilities.** An analysis of scope, content, objectives, procedures, and types of recreational surveys and appraisals. Collection and analysis of data.

**570-4 Seminar in Recreation and Outdoor Education.** Discussion of individual projects; presentation of research problems and dissertation topics.

**596-2 to 9 Independent Study.** Independent study and research in the student's field of interest.

## Rehabilitation

**414-1 to 16 Developing Employment Opportunities.** Designed to train rehabilitation personnel in the attitudes, methods and skills pertinent to placement of handicapped persons in competitive and other occupations. Prerequisites: special standing and consent of instructor.

**420-4 Human Development and Behavior.** Consideration of human development from the framework of the major theories, to include acquisition and maintenance of diverse behavior patterns. Prerequisite: advanced standing.

**480-2 An Introduction to Rehabilitation.** A survey of the philosophy, procedures and practices underlying the rehabilitation movement, including the history and legislation that have contributed to its rapid development.

**481-2 An Introduction to Employment and Developmental Services.** A review of the development and growth of employment services and special youth centers, current social needs and trends, and the organizational patterns in such centers.

**485-4 Scientific Methods in the Behavioral Sciences.** Scientific methods as an approach to the investigation of human behavior including consideration of various systems of behavior theory and practice.

**486-4 Introduction to Behavior Modification.** Overview of the field of behavior modification, its procedures, techniques, and methods. A survey of current literature examining the various populations being utilized.

**490-1 to 6 Readings in Rehabilitation.** Select readings supervised by the staff. Prerequisite: consent of instructor.

**501-6 (2,2,2) Rehabilitation Administration.** (a) Programming and organizational structures, formal and informal, of public and voluntary agencies and facilities. (b) Current and progressive supervisory practices in rehabilitation agencies, communication channels, employee counseling and evaluation methods. (c) Developing community resources, involvement and utilization of public and voluntary agencies in developing a comprehensive rehabilitation program. Prerequisite: consent of instructor.

**511-2 to 4 Vocational Developments and Occupational Choice.** The psycho-

social meaning of work, vocational development and theory of occupational choice, and the analysis of the labor market now and in the future. Prerequisite: consent of instructor.

**519-2 Selection, Placement, and Follow-up.** A survey of current methods and criteria used in job development, selective placement, and follow-up of handicapped and deprived individuals. Prerequisite: consent of instructor.

**521-4 Child Behavior.** Systematic examination of the manner in which children (from conception on) acquire and maintain their behavior patterns and the role of the environment in controlling such development. Prerequisite: Guidance 501 and consent of instructor.

**526-4 Complex Human Behavior.** The manner in which humans acquire, maintain, and attenuate the more complex forms of behavior, particularly in the social, vocational, and educational areas of behavior. Prerequisite: Guidance 501 and consent of instructor.

**531-4 Vocational Appraisal.** Consideration of tests and procedures used in assessing the individual's functioning abilities and the meaning work has in achieving fulfillment, which also includes the requirements of the job for purposes of aligning the two. Prerequisite: 511 or consent of instructor.

**532-4 Assessment Procedures in Rehabilitation.** A general review of the fundamental bases of measurement, the criteria for selecting assessment devices, introduction to select standardized and time-sample instruments, and the use of these in rehabilitation. Prerequisite: introductory statistics.

**533-4 Measurement in Behavior Change.** Dividing the types of measurement into two categories, direct and indirect, an analysis of the relative advantages or disadvantages inherent in each technique when applied to specific behavior areas. Prerequisites: Guidance 501 and consent of instructor.

**535-4 Schedules of Reinforcement.** A study of schedules as a basis for understanding and controlling behavior, and the nature of schedule effects in relation to other behavioral variables. Prerequisite: 485 or Guidance 501 or consent of instructor.

**537-4 Diagnostic Procedures for Special Populations.** A detailed survey of the procedures in diagnosis and assessment of the retarded, blind, deaf, brain injured, and others. May include some laboratory assignments. Prerequisites: Psychology 421 or consent of instructor.

**541-1 to 6 Medical Aspects of Rehabilitation.** A review of human systems, disfunctions leading to major diseases entities and injuries, and the implications for rehabilitation. Prerequisite: consent of instructor.

**543-4 Structural Basis of Behavior.** Study of the structural basis of the respondent and operant behavior systems and their relationship to environmental variable effecting both systems. Prerequisites: Guidance 501 and consent of instructor.

**551-4 General Rehabilitation Counseling.** An overview of the basic counseling processes appropriate to rehabilitation settings. Includes consideration of the stylistic and interpersonal factors common to various persuasions. Prerequisite: consent of department.

**552-4 Rehabilitation Counseling Research.** An intensive study of the heuristic aspects of theory and the resultant research in rehabilitation counseling. Also develops researchable problems. Prerequisite: 551.

**555-2 Rehabilitation Counseling with the Mentally Retarded.** Review and discussion of the philosophy, issues, approaches, and research pertinent to the counseling function in the development of the retarded. Prerequisite: 551 or concurrent registration.

**556-4 Group Procedures in Rehabilitation.** Characteristics of intensive group experiences, and procedures in preparation for group counseling. Prerequisites: Guidance 537 and consent of instructor.

**558-4 Programmed Instruction and Behavior.** Techniques and procedure in programming material for rapid acquisition of new behavior with particular emphasis on automated instruction and programmed texts. Prerequisite: 485 or Guidance 501 or 515 or consent of instructor.

**561-2 Psycho-Social Aspects of Disability.** An examination of the socio-emotional impact of traumatic injury or chronic illness (on human functioning) and its role in the rehabilitation process. Prerequisites: Psychology 421 and consent of instructor.

**563-2 to 4 Aggressive Behavior.** Analysis of the definitions, measures, and controls of the aggressive response. An exploration of the variables effecting the



amount and intensity of such behavior. Students may elect a project to undertake for the two additional credits. Prerequisites: Guidance 501 and consent of instructor.

**564-4 Sexual Behavior.** The definition and measurement of sexual responses, their significance and importance for understanding complex behavior patterns. Prerequisites: Guidance 501, Section 2, and consent of instructor.

**565-4 Verbal Behavior.** (See Guidance 554.)

**567-4 School-Related Behavior.** An intensive analysis of the students' and teachers' behavior, its functional relationship, and the ways in which behavior modification techniques might create a more satisfactory environment for teaching and learning. Prerequisites: Guidance 501 and consent of instructor.

**571-1 to 6 Seminar in Selected Topics.** Selected topics of pertinence to rehabilitation and counseling personnel. Prerequisite: consent of department.

**574-1 to 12 Seminar in Pastoral Counseling.** A consideration of those aspects of counseling and the helping relation that are relevant in pastoral settings, to include the special problems involved in pastoral counseling. Prerequisite: consent of instructor.

**576-1 to 12 Seminar in Behavior Modification.** Basic issues involved in the modification of human behavior in the applied areas—scientific, methodological, ethical and social issues will be evaluated. Prerequisite: consent of instructor.

**578-1 to 6 Seminar in Correctional Rehabilitation Counseling.** Review of major issues and research relative to rehabilitation practices in youth and correctional settings. Prerequisite: consent of instructor.

**580-1 to 6 Practicum in Rehabilitation Services.** Familiarization with the functions of various rehabilitation settings through observation and participation in those activities—usually one day per week. Prerequisite: consent of instructor.

**583-1 to 16 Practicum in Behavior Modification.** Practicum experience in an applied setting offered under joint supervision of staff and adjunct faculty. Prerequisite: consent of instructor.

**585-1 to 16 Practicum in Rehabilitation Counseling.** Practice in developing counseling skills under close supervision in a variety of settings. Prerequisites: Guidance 537a and consent of instructor.

**589-0 to 12 Internship in Rehabilitation.** Full-time practice in a rehabilitation setting supervised by both agency personnel and university faculty. Prerequisites: 585 and consent of department.

**590-1 to 16 Independent Projects.** Independent development of projects and systematic readings in pertinent rehabilitation areas. Prerequisite: consent of instructor.

**591-1 to 16 Research in Rehabilitation.** Systematic research on factors and procedures relevant to rehabilitation. Prerequisite: consent of instructor.

**599-1 to 9 Thesis.** Prerequisite: consent of instructor.

## Secondary Education

**402-4 Aerospace Education Workshop.** Teachers learn about current developments in this area and how to incorporate aerospace information into existing curricula. They study in some detail the social, political, and economic consequences of this era. Prerequisite: consent of instructor.

**407-8 (4,4) The Junior High School.** (a) The place of the junior high school in the organizational pattern, with major emphasis upon the areas of organization, administration, and curriculum. (b) Workshop. Designed to: 1) enable teachers to discover and evaluate the new content, methods, and materials available for the junior high school, grades 7-9; 2) develop teacher-made functional instructional models. Must be taken in a,b sequence. Junior high school teaching experience may be substituted for (a) as a prerequisite to (b).

**440-4 Teaching Reading in High School.** A foundation course in how to teach reading in junior and senior high school: developmental and corrective reading programs; appraisal of reading abilities; methods and materials of instruction. Prerequisite: Guidance 305.

**450-4 to 16 Field Training in Community Development Methods.**

**485-3 Principles and Philosophies of Vocational and Technical Education.** (See Technical and Industrial Education 485.)



**487-4 Teaching the Natural Sciences in Secondary Schools.**

**488-3 Teaching Social Studies in Secondary Schools.** Deals with objectives, scope and sequence of curriculum, methods of teaching different courses and age groups, materials and evaluation. Prerequisite: Guidance 305.

**490-4 Workshop in Economics Education.** (Same as Economics 490.) Designed to assist elementary and secondary school teachers in promoting economic understanding through the translation of economic principles and problems into classroom teaching materials.

**495-2-4 Seminar: Problems Related to Teaching Disadvantaged Youth.** For members of the National Teachers Corps and others working in classrooms with disadvantaged youth. Emphasis placed upon actual problems encountered by those enrolled. Reports and discussion based upon surveys and reading will be featured. Prerequisite: consent of instructor.

**506-4 Reading in the Secondary School.** For junior and senior high school teachers who desire a foundation in reading. Emphasis placed on the basic skills, appraisal of reading abilities, materials of instruction, and methods of teaching reading in the content areas. Prerequisite: 352 or teaching experience.

**507-2 to 4 Readings in Reading.** Independent reading; acquaintanceship with the literature and research in reading. Conference periods. Prerequisites: 505 and consent of instructor.

**508-4 Seminar: Trends in Selected Areas in Secondary Schools.** For students in advanced graduate work. Individual class members will read basic bibliography related to secondary education and read widely about trends in the area of their own teaching fields. Prerequisites: completion of half or more of the work leading to a master's degree and consent of the instructor.

**509-4 to 8 Practicum in Reading.** For advanced students; teaching demonstrations and evaluations. Each student works with a group of reading disability cases. Prerequisites: 521a,b,c, and consent of instructor.

**510-4 to 8 Seminar: Problems in Reading.** Major field content seminar: Problems and practices; comprehensive review and evaluation of research and literature. Each student pursues a problem of his own interest.

**514-4 Organization and Administration of Reading Programs.** For reading specialists, principals, supervisors, consultants. Recent trends in elementary and high school reading programs, providing reading instruction for total school population, materials and equipment, in-service training, role of the reading specialist. Problems of class members are studied and discussed. Prerequisites: Educational Administration 561, 505.

**516-8 to 12 Internship in Reading.** Culminating experience for doctoral candidates. Each student supervises reading services in his own or cooperating school. Conference periods. Prerequisites: 521a,b,c, and consent of instructor.

**518-2 Supervision of Student Teachers.**

**521-12 (4,4,4) Diagnosis and Correction of Reading Disabilities.** Causes of reading difficulties; observation and interview procedures; standardized tests, instruments, and informal inventories; analysis techniques; experiences in preparing materials for corrective purposes. Each student diagnoses and treats a reading disability case under supervision. Prerequisites: 505 or 440 or concurrent registration with 550, and teaching experience.

**544-9 NDEA Summer Institute for Teachers of German.** (See Foreign Languages.)

**550-4 Core Curriculum in the Secondary School.** Designed to help students gain a functional understanding of the core concept. Techniques of selecting materials and the cooperative planning of units of work. Critical study of current practices in this field. Prerequisite: Educational Administration 460.

**560-1 to 8 New Developments in Technological Education.** (See Technical and Industrial Education.)

**562-4 The High School Curriculum.** Designed to permit students to work in groups on problems related to the high school curriculum. Such problems should originate in the schools where the students are or will be employed. The point of view maintained is that procedures should be very democratic. The instructor serves as a coordinator of activity; resource people are used freely. Prerequisite: one other graduate course in curriculum.

**564-4 High School Principalship.** Designed to deal with problems met specifically by the high school principal. Emphasizes his role in relation to guidance, curriculum, schedule-making, extracurricular activities, public re-



lations, budgeting of time, etc. Prerequisite: Educational Administration 424 and consent of instructor.

**570-4 Extra-Class Activities.** Cocurricular activities of the junior and senior high school including intramural and interscholastic functions.

**571-4 Doctoral Seminar.** A study of school curricula, their historical development in the United States, contemporary problems, issues, and research with a survey of the evolution of instructional methods and procedures as they are related to learning, and new curricula. Limited to doctoral students.

**575-2 to 4 Individual Research.** The selection, investigation, and writing of a research topic, under the personal supervision of a member of the departmental graduate staff, in one of the following areas: (a) Curriculum, (b) Supervision, (c) Language Arts, (d) Science, (e) Reading, (f) Social Studies, (g) Problems in Secondary Education, (k) Junior High School Methodology.

**586-3 The Change Agent in Planned Change.** An intensive diagnosis of the dynamics involved in planned change in a social system and the consultant's relationship to this process. Prerequisite: consent of instructor.

**589-2 Seminar in Community Development.**

**591-4 Workshop in Current Problems in Secondary Education.** Designed primarily to help high school principals to work effectively and with the help of resource leadership on the most urgent problems confronting their schools. Discussion, reports, lectures, and final examination. Prerequisite: consent of instructor.

**596-5 to 9 Independent Investigation.** A field study required of each student working for the sixth-year professional certificate. The work should be done in the setting of a school system where the student is employed or where full cooperation is extended. The study will involve selecting of the problem, survey of pertinent literature, recording of results, and appropriate interpretations and summarizations.

**599-3 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree.

**600-1 to 48 Dissertation.** Minimum of 36 hours to be earned for the Doctor of Philosophy degree.

### Secretarial and Business Education

**403-3 Teaching Typewriting.** The programming of activities in typewriting training, methods of instruction, skill-building principles and techniques, selection and preparation of practice materials, standards of achievement, and evaluation of pupil performance. Prerequisite: 304 or equivalent.

**404-3 Teaching Shorthand and Transcription.** The programming of activities in shorthand and transcription training, methods of instruction, skill-building principles and techniques, selection and preparation of practice and home-work materials, standards of achievement, and evaluation of pupil performance. Prerequisite: 324a or equivalent.

**405-3 Teaching General Business Subjects.** Instructional methods and materials for, and the evaluation of pupil progress in, such basic business subjects as general business, consumer education, economic geography, business law.

**406-4 Teaching Office Practice and Office Machines.** Instructional methods and materials for, and the evaluation of pupil performance in, office practice and office machines.

**408-3 Teaching Bookkeeping and Accounting.** Instructional methods and materials for, and the evaluation of pupil progress in bookkeeping and accounting. Prerequisite: Accounting 251b or equivalent.

**414-6 (3,3) Organization and Administration of Cooperative Vocational Business Education.** (a) Philosophy and objectives of cooperative vocational programs, methods of selecting students and work stations, placing and supervising students on part-time jobs. (b) Preparation of instructional materials, job analysis, conducting related information classes, evaluating workers and work stations, advisory committees, public relations aspects of cooperative programs.

**415-6 Supervised Business Experience and Related Study.** Designed to prepare teachers and coordinators of in-school and cooperative vocational business education programs in accordance with the requirements of the Illinois State Plan for the Administration of Vocational Education. First week (15



hours) devoted to classroom study of the principles and problems of coordinating in-school and cooperative vocational business education programs next five weeks (200 hours) devoted to supervised occupational experience; seventh week (15 hours) devoted to classroom analysis and evaluation of on-the-job experiences of the members of the class in relation to their future work as coordinators and vocational teachers. Each student applies for and obtains his own position with the assistance and approval of the instructor. While employed, each student looks for and analyzes relationships between his work experiences and the in-school or cooperative work experience program he will later conduct.

**417-4 Applications and Fundamentals of Data Processing in Business Education.** Acquaints business teachers with data processing applications in high school business classes. Emphasis on vocabulary development, unit record equipment, concepts of programming, and fundamentals of computer applications. Approximately one-third of the course will be spent in machine operation.

**426-4 Office Management.** The principles of management as applied to office problems. Emphasis on the role of the office in business management; office organization; physical facilities of the office; office services, procedures, standards, and controls; records management.

**427-3 Records Administration.** The requisites for records administration. The value of files, their creation, control, retention, and disposition. Applications to such records as medical, legal, educational. Prerequisite: 407.

**485-3 Principles and Philosophies of Vocational and Technical Education.** (See Technical and Industrial Education 485.)

**500-4 Principles and Problems of Business Education.** A study of the fundamentals of business education; its relation to business, to general and vocational education, and to guidance programs; its history, current status, and trends; special emphasis on objectives and curriculum problems.

**502-4 Research in Business Education.** A study of research findings and techniques as exhibited in representative investigations in business education. Emphasis on reading and interpreting research, using research findings in solving instructional problems, and uncovering potential topics for future research. Prerequisite: Guidance 422b.

**503-4 Tests and Measurements in Business Education.** The selection, construction, administration, and interpretation of tests and test scores in business education subjects. Principal emphasis on teacher-made tests, especially of the performance type, with secondary attention to published tests in the field.

**505-1 to 6 Workshop in Business Education.** Major issues in business teacher education. Ordinarily offered during one or two weeks of the summer session.

**508-4 Administration and Supervision in Business Education.** History and philosophy of administration and supervision in Business Education with consideration of problems arising at local, state, and national levels; and at secondary, college, and university levels. Supervisory problems will include curriculum construction and evaluation, classroom supervision, promotional policies, selection of textbooks, purchase and maintenance of equipment, physical arrangements, and other areas according to need of students.

**509-4 Improvement of Instruction in General (Basic) Business Subjects.** Designed for the experienced high school teacher who is interested in the study of curriculum and teaching problems in basic business subjects. The course will include teaching procedures, review of materials, formulation of tests and evaluation. The organization of teaching units and projects will be emphasized.

**510-4 Improvement of Instruction in Secretarial Subjects.** Designed for the experienced high school teacher who is interested in the study of curriculum and teaching problems in secretarial subjects. The course will include teaching procedures, review of materials, formulation of tests and evaluation. Prerequisite: 403 or 404 or 406.

**525-3 Interrelated Vocational Cooperative Education.** (See Technical and Industrial Education 525.)

**590-2 to 5 Readings in Business Education.** Supervised readings in selected subjects. Prerequisite: consent of instructor.

**591-2 to 5 Individual Research in Business Education.** Selection and investigation of a problem, use of relevant sources and techniques, collection, evalua-



tion, and interpretation of data; and the writing of a report on the investigation. Prerequisite: consent of instructor.

**599-1 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree.

## Sociology

**406-4 Social Change.** Processes of social change in the modern world; culture lag and conflict of norms; individual and social problems arising from conflicting systems of social values and cultural norms. Prerequisite: GSB 201b or 301.

**412-4 Sociological Research.** Application of the scientific method to sociological problems. The role of theory. Principles of good research design, measurement, sampling and analysis. Prerequisite: graduate status or consent of instructor.

**415-3 Logic of the Social Sciences.** (See Philosophy 415.)

**424-4 Collective Behavior.** The behavior of people in large groups; collective interstimulation and emotions; crowds, audiences, and publics; mass stimuli and mass response. Prerequisite: 321 or 322, or consent of instructor.

**426-4 Social Factors in Behavior and Personality.** How group situations and values affect behavior and shape personality; development of concepts, role-concepts, attitudes, values; theories of motivation; self-concepts; conflicting social values in relation to individual motivation. Prerequisite: 321 or Psychology 305, or consent of instructor.

**427-4 Personality and Social Adjustment.** Basic mechanisms of adjustive behavior; concepts and criteria of personal integration and social adjustment; varieties of adjustive and non-adjustive behavior; theories of personal organization and disorganization; selected problems. Prerequisite: 321 or Psychology 305 or consent of instructor.

**435-4 Social Stratification.** A comparative study of social class systems, with emphasis on the American systems. Relationships of class position to behavior in family, religion, politics, etc. Prerequisite: GSB 201b or 301.

**438-4 Sociology of Occupations and Professions.** Natural history and institutional aspects of occupations in our society, cultural context of occupations in both primitive and modern society, preparation for jobs, human values in work, promotion and discharge, mobility, retirement. Prerequisite: GSB 201b or 301.

**449-4 Sociology of Aging.** The social implications of an aging population; social adjustments to the aging process; personal adjustments to the roles and statuses of later maturity; a consideration of retirement and public assistance programs for older people. Prerequisite: GSB 201b or consent of instructor.

**450-4 Social Thought I: Before 1800.** The ideological basis of Western society. The classical foundations. Trends of thought from the Renaissance to the Enlightenment. Prerequisite: consent of instructor.

**451-4 Social Thought II: The Sociological Movement.** From Romanticism to Realism; rise and development of scientific social thought. Prerequisite: consent of instructor.

**453-4 Social Movements.** A sociological study of modern social movements; social and cultural backgrounds, forms of expression and organization; social structure of social movements, their role and function in modern society. Prerequisite: GSB 201b or 301.

**470c-4 Urban Planning.** (See Government 470.)

**471-4 Principles of Demography.** Techniques in analyzing and evaluating data on human population; composition, birth and death rates, life tables, migration data, estimates of future trend. Practical uses of demographic techniques. Prerequisite: consent of instructor.

**472-4 The American Correctional System.** A survey of the correctional field covering probation, institutional treatment, and parole: their historic development, organizational structure, program content, and current problems. Prerequisite: 372 or consent of instructor.

**473-4 Juvenile Delinquency.** Nature of juvenile delinquency; relationship to theories of deviant behavior; efforts at prevention and control. Prerequisite: 302 or consent of instructor.

**481-4 Processes in Social Work.** Theory, rationale, and practice of casework, group work, social welfare organization, and the roles of supervision, admin-



- istration, and research in relation to each. Case material study and discussion with field observation and practice. Prerequisite: 375 or consent of instructor.
- 482-3 Social Work in Selected Agencies.** Study of representative literature on casework in family, psychiatric, medical, school, military, child welfare, and correctional settings, and others. Case material study and discussion with field observation and practice. Prerequisite: 481.
- 483-4 Current Problems in Corrections.** An exploration of contemporary problems in the control and treatment of sentenced offenders and a review of research trends in corrections. Prerequisites: 472 and consent of instructor.
- 486-1 to 5 Independent Study in Community Development.** Individual study and projects designed to fit the needs of each student. Prerequisite: consent of instructor.
- 487-4 Community Development.** The concepts of community development and analysis of the social-psychological forces and processes involved in citizen study, planning and action directed toward the fuller development of communities in a democratic society. Prerequisite: 4 hours of sociology or consent of instructor.
- 489a-4 Probation, Classification, and Parole.** An introduction to the structure and function of those elements of the correctional process primarily concerned with the evaluation, treatment, and control of offenders with particular attention to the casework components of the process. Prerequisite: 481 or consent of instructor.
- 489e-2 to 4 Independent Study in Corrections.** Supervised readings or independent investigative projects in the various correctional aspects of crime control, institutional management, and specific correctional programs. Prerequisite: consent of instructor.
- 501-4 Survey of Sociological Theory.** The development of sociology as a science of society, from synthetic philosophy to analytic sociology. Prerequisite: 451 or consent of instructor.
- 502-4 Seminar in European Sociological Theory: 1800-1910.** The theoretical systems of selected European sociologists studied from the original writings. Prerequisite: 15 hours of sociology or consent of instructor.
- 503-4 Seminar in European Sociological Theory: 1910 to the Present.** A Continuation of 502. Prerequisite: 15 hours of sociology or consent of instructor.
- 504-4 Seminar in American Sociology.** A survey of development of American sociology from its beginnings in the late 19th century to the present. Prerequisite: 501 or consent of instructor.
- 506-4 Seminar in Contemporary Sociological Theory.** An analysis of recent sociological theories, including a survey of current approaches to the construction and application of systematic theoretical models. Special attention will be given to "structural-functional" analysis and to the theoretical adequacy of selected theory-oriented empirical research areas. Prerequisite: 15 hours of sociology or consent of instructor.
- 513-2 Supervised Research.** Under guidance of instructor, students conduct a sociological research project. Prerequisites: 412 and 526.
- 519-4 Methodological Foundations of the Social Sciences.** Social science methodology; the nature of social facts and phenomena, the formation of concepts, the application of logic in the social sciences. Prerequisites: 407, and Philosophy 420 or consent of instructor.
- 521-4 Seminar in Social Psychology.** Survey of theoretical systems; progress toward integrated body of behavioral theory. Prerequisite: 426.
- 522-4 The Sociology of Small Groups.** The study of the small group as a small-scale social system. The interrelationship between selected patterned properties of groups such as interaction, emotion, norms, beliefs, values, and myths as the group encounters and attempts to deal with basic problems of group development. Prerequisite: 426 or consent of instructor.
- 526-4 Quantitative Methods in Sociology I.** Elementary logic and argumentation; sets, relations and functions; graph theory; problems in concept formation and measurement in sociology. Prerequisite: college algebra.
- 527-4 Quantitative Methods in Sociology II.** Elements of finite probability theory; Bayes' analysis; mean, variance, and distribution of random variables; covariance and correlation; the binomial distribution; introduction to simple stochastic processes as models of social processes. Prerequisite: 526 or consent of instructor.
- 528-4 Quantitative Methods in Sociology III.** The logic of choosing and interpreting a statistic; association; inference and estimation; sample size;



multi-variate association and correlation; Fortran II and the uses of the computer in sociological research. Emphasis will be given to problems of association. Prerequisite: 527 or equivalent.

**529-4 Sociological Measurement.** Organizing empirical data; choosing and interpreting a statistic; bi-variate association and correlation; inference and estimation. Prerequisite: consent of instructor or college algebra.

**530-4 Research Design.** Types of research design. Formulation of a research problem. Ecological research methods. Case studies, types of experimental designs. Management of research projects. Types of sampling. Prerequisite: 527 or equivalent.

**531-4 Research Analysis.** Content analysis. Classification, editing, coding, tabulation, and graphing. Analysis of descriptive research. Analysis of explanatory research. Errors and bias in research. Presentation of research findings. Prerequisite: 530 or consent of instructor.

**532-4 Urban Social Structure.** Theories of urban social structure and change, with emphasis on the comparative analysis of ecological and normative processes of integration and disintegration in modern urban communities.

**533-4 Ecology of Human Communities.** Spatial and temporal organization of population and institutions with special reference to the organization of rural and metropolitan communities. Emphasis on basic research methods and current sources of data in respect to type, structure, and growth of the communities. Prerequisite: 15 hours of sociology or consent of instructor.

**534-4 Seminar in Intergroup Relations.** Cross-cultural study of inter-ethnic and inter-faith relations, with special attention to conflict, accommodation, acculturation and assimilation. Prerequisite: 15 hours of sociology or consent of instructor.

**537-4 Sociology of Law.** An analysis of the role of law in society. Special emphasis will be given to the relationships between law and social organization, social control, social value systems, and social change; consideration will be given to research in the field. Prerequisite: 15 hours of sociology or consent of instructor.

**538-4 Seminar in Industrial Sociology.** Selected aspects of industrial organization and related problems including such topics as: functional and dysfunctional deviations from ideal bureaucracy, promotion policies, labor relations, job aptitudes, job satisfactions, and public relations. Prerequisites: 15 hours of sociology and consent of instructor.

**539-4 Sociology of Bureaucracy.** Analysis of the structural characteristics and conditions for the emergence of bureaucratic and quasi-bureaucratic forms of organization. Attention to such problems as the bases of authority, stabilizing mechanisms, systems of formal and informal relations, rationality and paradox in bureaucratic organization; impact of bureaucratic organization upon character structure and its role in the formation of classes and elites. Prerequisites: 15 hours of sociology and consent of instructor.

**542-4 Seminar on the Family.** The family as a field of sociological study. Assessment of significant historical and contemporary writing. Prerequisite: 15 hours of sociology including 340, or consent of instructor.

**543-4 Seminar in Family Variability.** An analysis of the structure, organization and function of the family in several contemporary and primitive societies. Prerequisite: 15 hours of sociology including 340, or consent of instructor.

**544-4 Seminar in Family Research.** A detailed analysis of significant research in the field of the family. Special attention to methods employed as they relate to the specific problems investigated. Prerequisite: 15 hours of sociology including 340, or consent of instructor.

**545-4 The Family and Social Change.** The significant social factors responsible for changes in the family. Analysis of representative writings from several periods. Prerequisite: 15 hours of sociology including 340 or consent of instructor.

**561-4 Alcohol and Society.** Analysis of the determinants of ranges of variation in drinking patterns, normal or pathological, viewed cross-culturally and in the context of complex society. Special consideration will be given to the following: the ecology of drinking and alcoholism, drinking patterns and social structure, drinking centered subcultures and institutions, as well as to the genesis and patterning of deviant drinking (alcoholism), responsive movements and systems of control. Prerequisite: consent of instructor.

**562-4 Deviance and Disorganization.** Comparative study of the role of social,



cultural, and psychological factors in the genesis of specific social pathologies exhibiting marked variation in group rates. Pathologies such as suicide, homicide, and alcoholism will be taken as illustrative. The strategic significance of the study of such phenomena for theories of social and personal disorganization will be considered in detail. Prerequisite: consent of instructor.

**563-4 Research Problems in Deviance and Disorganization.** For students who are concerned to develop viable research projects in the areas of social disorganization and deviant behavior. Students formulate and present original research prospectuses for critical evaluation. Consideration given to questions of theoretical relevance, research design, and appropriate techniques. Prerequisite: consent of instructor.

**564-4 Social Factors in Mental Disorders.** An examination of the role of social organization and structure in the emergence of mental disorders. Consideration given to pertinent theoretical and research contributions. Prerequisite: consent of instructor.

**566-4 Community Organization and Disorganization.** Nature of the community and community generating processes. Appraisal of consensus and allocation of power. Illustrative community case studies. Prerequisite: consent of instructor.

**572-4 Seminar in Criminology.** Critical study of important research and theoretical analyses. Prerequisite: consent of instructor.

**583-4 to 12 Supervised Field Work in Corrections.** Experience in state and federal institutions, probation and parole departments, juvenile courts, delinquency control programs, and public or voluntary agencies. Students registering will be required to attend orientation sessions prior to actual placement; enrollment should be discussed considerably in advance of experience to facilitate arrangements with agencies. Prerequisite: consent of instructor.

**587-2 to 8 Individual Research in Community Development.** Research designed to meet the professional objectives of the individual student. Prerequisite: major in community development.

**588-12 (4,4,4) Seminar in Community Development.** (a) Principles and technologies applicable to solving social problems in the context of community development. Laboratory period for field experience. (b) An intensive diagnosis of the dynamics involved in planned change in a social system and the consultant's relationship to this process. (c) Focuses on a range of community development and community action models which deal with selected skill practices necessary to the community development technician. Must be taken in a,b,c sequence. Prerequisite: 487 or consent of instructor.

**591-2 to 6 Individual Research.** Supervised research projects. Open only to graduate students with a major in sociology. Prerequisite: consent of instructor and chairman of department. Credit according to achievement.

**596-2 to 12 Readings in Sociology.** Supervised readings in selected subjects. Prerequisite: consent of instructor and chairman of department.

**599-2 to 9 Thesis.** Prerequisite: consent of chairman.

**600-1 to 48 Dissertation.** Prerequisite: consent of chairman.

### Special Education

**406-4 Techniques and Interpretation of Hearing Tests.** (See Speech Pathology and Audiology 406.)

**410a-4 Problems and Characteristics of the Emotionally Disturbed Child.** Diagnosis, screening, classroom management, placement considerations, goals and the effective use of ancillary services. Emphasis on the understanding of maladaptive behavior through principles of learning and behavior dynamics. Prerequisite: Psychology 301 or 303, or consent of instructor.

**410b-4 Problems and Characteristics of the Mentally Retarded.** Objectives, curriculum, methods, and materials of instruction for slow learners. Emphasis upon the principles of learning as they can be applied to this group. Observations. Prerequisite: Guidance and Educational Psychology 305 or Psychology 301 or 303.

**410c-4 Problems and Characteristics of the Gifted Child.** Designed to help teachers in the identification of and programming for gifted and talented children. Prerequisite: Psychology 301 or 303 or consent of instructor.

**410d-4 Problems and Characteristics of the Acoustically Handicapped Child.** Consideration of psycho-social and educational aspects of deafness. History



and attitudes of society. The impact of auditory impairment on language development, education and adjustment. Prerequisite: Psychology 301 or 303, or consent of instructor.

**411-4 Assessment and Remediation of Learning Disabilities.** (Same as Guidance 411.) Theories of special tests and remedial programs designed for children with specific learning disabilities of a perceptual or coordination nature and who may demonstrate related adjustment problems. Prerequisite: 414 and consent of instructor.

**413a-4 Directed Observation of Emotionally Disturbed Children.** Student observation and participation in group and individual work with emotionally disturbed children. Often taken concurrently with 410a. Prerequisite: consent of instructor.

**413b-4 Directed Observation of Mentally Retarded Children.** Student observation and participation in group and individual work with mentally retarded children. Often taken concurrently with 410b. Prerequisite: consent of instructor.

**413d-4 Directed Observation and Practice with Hard-of-Hearing Children.** Student observation and participation in group and individual work with hard-of-hearing children. Often taken concurrently with 515. Prerequisite: consent of instructor.

**414-4 The Exceptional Child.** Physical, mental, emotional, and social traits of all types of exceptional children. Effects of handicaps in learning situations. Methods of differentiation and techniques for rehabilitation. Individual case studies used; observations and field trips. Prerequisite: Psychology 301 or 303 or consent of instructor.

**415-4 Education of Acoustically Handicapped Children.** Comparison of language development in hearing and acoustically handicapped children. Survey of established systems of teaching language to the deaf. Principles and techniques in developing concepts, vocabulary, and basic English structures; receptive and expressive oral and written language. Prerequisite: consent of instructor.

**416-4 Introduction to Audiology.** (See Speech Pathology and Audiology 416.)

**419-4 Communication Problems of the Deaf and Hard of Hearing.** (See Speech Pathology and Audiology 419.)

**420a-4 Methods and Materials for Teaching Emotionally Disturbed Children.** Offered in conjunction with practice teaching, dealing with methods and materials needed in teaching emotionally disturbed children.

**420b-4 Methods and Materials for Teaching Mentally Retarded Children.** Usually offered in conjunction with practice teaching, dealing with methods and materials needed in teaching educable mentally retarded in special education programs. Prerequisite: 410b and consent of instructor.

**420d-4 Methods and Materials for Teaching Acoustically Handicapped Children.** Methods, materials and techniques of teaching reading and elementary subjects to acoustically handicapped children in special education programs. Prerequisites: 410d and consent of instructor.

**421-4 Speech for Acoustically Handicapped Children.** A survey of methods in teaching oral language skill to acoustically handicapped children. Emphasis on use of visual, tactile, and kinesthetic sensory avenues in developing intelligible articulation. Voice and sentence rhythm, consideration of auditory training techniques in relation to speech development. Prerequisite: Speech Pathology and Audiology 200.

**428-4 Speech Correction for the Classroom Teacher.** (Same as Speech Pathology and Audiology 428.)

**496-2 to 8 Readings and Independent Study in Special Education.** Study of a highly specific problem area in the education of exceptional children. Open only to selected seniors and graduate students. Prerequisites: 414 and consent of staff.

**501-4 Special Research Problem.** For majors and minors in the field of special education. Choosing and conducting research activities. The student to select a topic for research and present it, upon completion, to the staff. Prerequisite: consent of staff.

**513-4 Organization, Administration, and Supervision of Special Classes.** Emphasis upon the functions, underlying principles, and cautions to be observed in the organization and administration of special classes. The selection and training of teachers, problems of supervision, special equipment, transportation, cooperating agencies, and legal aspects of the problem. Prerequisite: 414.



**515-4 Itinerant Teaching of Exceptional Children.** Consultation and interviewing techniques for use with individual exceptional children, their parents, teachers and other school or agency personnel. Methods of individual and small group instruction. Emphasis on itinerant service for emotionally disturbed and hard-of-hearing children through separate concurrently scheduled lectures and demonstrations. Prerequisite: 410a,b, or d.

**517-4 The Atypical Child and Social Agencies.** A survey of social agencies contributing to the welfare and care of exceptional children. Emphasis given to services rendered and to methods of contact and cost. Visits made to agencies and institutions. Specialists invited to appear before the class. Prerequisite: 414 or consent of instructor.

**518-4 Workshop in Special Education.** Designed to promote better understanding of the psychological and educational problems of atypical children. Specialists used as consultants. Open to graduate students majoring in education, guidance, or special education. Prerequisite: 414.

**577-4 to 12 Practicum in Special Education.** Supervised experience in school or institution programs for atypical children. Special research project. Open to graduate students only. Prerequisites: 410a,b,c, or d and consent of staff.

**580a-4 Seminar: Education of Maladjusted Children.** Analysis of research, trends, and programs in the education of children who are emotionally disturbed, socially maladjusted, and/or have specific learning disabilities. Open to graduate students in special education only. Prerequisites: 414 and consent of instructor.

**580b-4 Seminar: Education of Mentally Retarded Children.** Analysis of research, trends, and programs in the education of children who are mentally retarded. Open to graduate students in special education only. Prerequisites: 414 and consent of instructor.

**580d-4 Seminar: Education of Acoustically Handicapped Children.** Analysis of research, trends and programs in the education of children who are deaf or hard-of-hearing. Open to graduate students in special education only. Prerequisites: 414 and consent of instructor.

**590-4 Seminar: Education of Children with Mental Deviations.** Critical review of administrative practices, research, theories and etiological factors relevant to programs in the education of children who are mentally retarded or gifted. Implications of research in related disciplines. Application of theories to practice. Open to advanced graduate students in special education only. Prerequisite: consent of instructor.

**591-4 Seminar: Education of Physically Handicapped Children.** Critical review of administrative practices, research theories and etiological factors relevant to programs in the education of children who are acoustically, visually, or orthopedically handicapped or those who, for medical reasons, must receive homebound instruction. Open to advanced graduate students in special education only. Prerequisite: consent of instructor.

**592-4 Seminar: Education of Children with Learning and Behavioral Disorders.** Critical review of administration practices, research theories, and etiological factors relevant to programs in the education of children who are emotionally disturbed, socially maladjusted, and/or have specific learning disabilities. Implications of research in related disciplines. Application of theories to practice. Open to advanced graduate students in special education only. Prerequisite: consent of instructor.

**596-5 to 9 Independent Investigation.** A field study required of each student working for the sixth-year specialists certificate. The work should be done in the setting of a school system where the student is employed or where full cooperation is extended. The study will involve selecting of the problem, surveying of pertinent literature, recording of results, and appropriate interpretations and summaries.

**599-2 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree.

**600-1 to 48 Dissertation.**

### Speech

**General Speech:** 408-4, 429-4, 440-4, 449-4, 450-12 (4,4,4), 520-3, 530-1 to 4, 532-4, 599-2 to 9, 600-3 to 48.

**Oral Interpretation of Poetry:** 423-4, 424-4, 434-4, 523-3, 530-1 to 4, 599-2 to 9.



**Rhetoric and Public Address:** 407-8 (4,4), 417-4, 418-4, 425-3, 500-4, 504-3, 505-4, 508-4, 510-4, 524-3, 530-1 to 4, 599-2 to 9.

**Speech Education:** 406-4, 427-4, 511-3, 525-4, 530-1 to 4, 599-2 to 9.

**401-4 Creative Dramatics.** (Same as Theater 401.) Materials, techniques, and procedures for conducting sessions in informal drama with emphasis upon its contribution to the total growth and development of the child. Includes lectures, observations, student participation, and practice.

**406-4 Teaching Speech in Secondary Schools.** Philosophy of speech education, and effective teaching of speech through curricular and extra-curricular work. Prerequisite: 16 hours of speech.

**407-8 (4,4) History of American Public Address.** Critical studies of American speakers; selected speakers and speeches which reflect the dominant social and political ideas in American history. A lecture, reading, and discussion course. Parts may be taken independently.

**408-4 Psychology of Speech.** Nature and development of speech, its basic psychology, and the part speech plays in personality development.

**417-4 Contemporary Public Address.** A critical study of speakers and speeches selected to present the characteristic ideas of leading social and political developments in national and international affairs since 1918. A lecture, reading, and discussion course.

**418-4 British Public Address.** Critical study of British speakers to c. 1920. Selection of material will be governed both by men and the issues that moved men throughout British history.

**422-4 Oral Interpretation of Prose.** The study of reading of prose literature emphasizing the specific problems posed for the oral reader by this form. Prerequisite: 323, GSD 200, or consent of instructor.

**423-4 Oral Interpretation of Poetry.** The reading of poetry and the interpretation of the thought and emotional content of the poetry to the audience. Prerequisites: 103, 223.

**424-4 Oral Interpretation of Dramatic Literature.** Readings, selecting, cutting, and presenting various types of dramatic literature. Each student gives a final recital program of readings. Prerequisites: 103, 223.

**425-3 Techniques of Discussion Leadership.** Group discussion designed to clarify the functions and concepts of the leader in democratic society.

**427-4 Secondary School Forensic Program.** Coaching and organizational methods for forensic programs in school and college.

**429-4 Experimental Studies in Oral Communication.** A survey, analysis, and criticism of experimental approaches to the study of oral communication, with practice in planning and conducting experimental studies.

**434-4 Lecture and Lecture-Recital.** Study of professional work on the public platform which is climaxed by a lecture or recital of a professional nature. Prerequisite: 12 hours of public speaking, interpretation, or theater.

**440-4 Advanced Phonetics.** Phonetic theory. Materials and methods of linguistic geography. Prerequisite: 200.

**441-4 Teaching Speech in Elementary Schools.** Study of oral language development in children, analysis of their speech needs, and methods of teaching speech in elementary schools with emphasis on speech improvement and development of basic speech skills.

**449-4 General Semantics.** Means of changing implications so that language, in spoken or written form, describes the life facts.

**450-12 (4,4,4) Laboratory in Interpersonal Communication.** Communication viewed as a process of relating and evaluating. Applications of and related philosophy, methodology and research to the functioning of the class itself through various speech activities. The course encompasses the common core of communication behaviors relevant to the chief communication specialties.

**500-4 Survey of Classical Rhetoric.** Ancient rhetoricians and orators from Corax to Augustine, with special emphasis upon the works of Aristotle and Cicero. Lectures and special studies.

**501-10 NDEA Institute in Oral Language.** Provides the best possible responses in terms of staff practices and materials in order to prepare teachers to meet the oral language needs of all elementary school children.

**504-4 Medieval and Renaissance Rhetoric.** An examination of the trends in rhetorical theory between A.D. 100 and 1600 designed to facilitate understanding of the transition from classical to modern theory.



**505-4 Modern Rhetorical Theory.** An analysis of selected theories of public address from the seventeenth century to the present, with a view of discovering the methods and objectives of modern rhetoricians and relating them to society and its problems during the period.

**507-6 (3,3) Studies in Public Address.** The study of orators, oratory, issues and movements in terms of implications for rhetorical theory and current concepts of communication. Prerequisite: 407a,b.

**508-4 Seminar: Studies in Discussion.** Studies in group thinking and group action with a view to improving discussion and conference techniques.

**510-4 Seminar: Persuasion and Social Control.** Uses and applications of persuasion in the various fields of social activity. Mass media examined as they apply to politics, business, religion, and education.

**511-4 (2,2) Teaching the College Speech Course.** Problems, methods, and materials in the teaching of speech in college with primary emphasis on the basic course. Examination of textbooks, courses of study, curriculum making, measurement, and relationship to other fields.

**520-3 Philosophical Foundations of Speech.** A special course reviewing the philosophy of speech for graduate and advanced students. Designed to take advantage of the knowledge and background of distinguished visiting professors.

**523-3 Seminar: Problems in Interpretation.** An investigation of the more advanced problems in oral interpretation, such as creation of atmosphere, use of restraint, impersonation, and impressionism. Prerequisites: 18 hours in interpretation and theater and consent of instructor.

**524-6 (3,3) Problems in Rhetoric and Public Address.** Rhetorical theory and criticism of public address examined. Classical and contemporary theory and practice studied.

**525-4 Seminar: Speech Education.** Problems of philosophy and methods of teaching speech in the elementary and secondary schools. Prerequisite: 306 or consent of instructor.

**526-3 Seminar in Theater Arts.**

**527-3 The College Forensic Program.** Individual studies of the problems encountered in the organization and direction of the college forensic program.

**532-4 (2,2) Areas and Techniques of Research in Speech.** Study and analysis of outstanding works in the various areas of research. Lectures on research techniques and study possibilities in the field.

**599-2 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree.

**600-1 to 48 Dissertation.** Minimum of 36 hours to be earned for the Doctor of Philosophy degree.

### Speech Pathology and Audiology

**400-1 to 4 Independent Study in Speech Correction and Audiology.** Activities involved shall be investigative, creative, or clinical in character. Must be arranged in advance with instructor. May be repeated for as much as 6 hours of credit.

**405-12 (4,4,4) Practicum in Speech and Hearing Therapy.** Clinical and school procedures in speech correction and audiology. One hour of class per week, and 2 hours of clinical activity or work on clinically related projects for each hour of credit. (a) Emphasizes therapeutic procedures. (b) Emphasizes diagnostic techniques. (c) Emphasizes the utilization of forms and the preparation of reports. Need not be taken in sequence, but a,b or c cannot be repeated. Prerequisite: junior standing in department.

**406-4 Techniques and Interpretation of Hearing Tests.** (Same as Special Education 406.) Principles and techniques of testing the hearing and interpreting those tests in terms of the individual's needs. Prerequisite: 416 or consent of instructor.

**409-4 Research Techniques in Speech Science.** A presentation of the research techniques used in speech science with particular emphasis on equipment, experimental design, and study of significant research contributions to the field. Open to advanced students in speech or those with consent of the instructor.

**412-4 Cerebral Palsy.** An investigation of the etiology, problems, and therapy of cerebral palsy. Prerequisites: 212, 414 or consent of instructor.

**414-4 Anatomy and Physiology of Speech and Hearing Mechanisms.** (See Physiology 414.)

**415-4 Aphasia.** An investigation of the etiology, problems, and therapy of aphasia. Prerequisite: 412, 414 or consent of instructor.

**416-4 Introduction to Audiology.** Provides the student with a basic orientation to the professional field of audiology, its history and its goals. Basic acoustics, the phylogeny, anatomy and physiology of the human ear, and significant pathologies of the ear are presented. Prerequisite: junior standing or consent of instructor.

**419-4 Communication Problems of the Deaf and Hard of Hearing.** (Same as Special Education 419.) Objectives and techniques for the teaching of lip reading, speech conservation, and auditory training. Prerequisite: 406 or consent of instructor.

**420-4 Advanced Clinical Audiometry.** Principles and procedures for advanced audiometric testing, advanced problems in bone conduction measurements, in evaluation of loudness recruitment, in topodiagnostic audiometry, and non-organic hearing loss are presented. Practical techniques include speech audiometry, Bekesy audiometry, conditioned pure tone electrodermal audiometry, and use of the Zwislocki Acoustic Bridge. Prerequisites: 416 and 406 or consent of instructor.

**428-4 Speech Correction for the Classroom Teacher.** (Same as Special Education 428.) Etiology and therapy of common speech defects. This course may be taken by all inservice teachers, seniors, and graduate students in education.

**515-1 to 4 Readings in Speech Pathology.** Supervised and directed readings in specific areas of speech pathology.

**516-4 Seminar in Psychoacoustics.** Advanced study of the behavioral response of the human hearing mechanism to the various parameters of the acoustic stimulus; threshold sensitivity, loudness, pitch, localization, modulation, beats and masking. Prerequisites: 406, 416, 520.

**520-4 Seminar in Physiological Acoustics.** Advanced study of the physiological responses of the middle and inner ear to the acoustic stimulus. Theories of middle ear function and of cochlear function are presented in detail. Prerequisites: 416, 406.

**521-1 to 4 Seminar in Articulation and Delayed Speech.** Special problems of language development and articulation.

**522-4 to 16 (1 to 4 each) Seminar in Organic Speech Problems.** (a) Developmental anatomy and physiology. (b) Teratology, surgery, and dentistry. (c) Neuropathological bases. (d) Clinical management. Must be taken in a,b,c,d sequence or by consent of instructor. Prerequisite: graduate standing in department.

**528-4 Seminar in Experimental Audiology.** Basic psychophysical methods, basic operating principles of electronic equipment, and the use of laboratory sound-production and measurement equipment will be presented. Students will design and perform model psycho-acoustic experimentation. Prerequisites: 520 and 516, or consent of instructor.

**529-3 to 12 (1 to 4 each) Seminar in Stuttering Behavior.** (a) Emphasizes theoretical analysis, (b) emphasis on diagnostic techniques, (c) application of principles to therapy. Must be taken in a,b,c sequence or by consent of the instructor.

**530-1 to 4 Research Problems in Speech Correction.** Individual work upon selected problems for research.

**531-1 to 4 Seminar in Experimental Phonetics.** An investigation into the experimental approaches for the study of the phenomena of speech.

**533-1 to 4 Seminar in Speech Science.** Special problems in voice science and acoustic perception.

**534-1 to 4 Seminar in Instrumentation.** Familiarity with instruments, their uses, capabilities, and limitations, as they apply to the study of speech and hearing.

**536-1 to 4 Seminar in Administration of Speech and Hearing Programs.** A study of program settings, organizational procedures, and professional inter-relationships in adult speech and hearing therapy. Field trips to rehabilitation centers and related agencies.

**599-2 to 9 Thesis.**

**600-1 to 48 Dissertation.**



## Technical and Industrial Education

**408-3 Teaching Aids in Technological Education.** Selection, development, analysis, cataloging, and use of commercial and self-made instructional aids and devices.

**419-8 to 16 Student Teaching in Technical Programs.** Experience in working with special and post-high school technical training programs in approved centers. The student teacher will follow the program of the supervisors of the primary specialization in both regular and extra-class activities. Prerequisite: 9 hours Technical and Industrial Education courses.

**420-8 (4,4) Enterprise: The Man-Machine System.** Classroom, laboratory, and library study of man-machine systems in a variety of industries and institutions, with emphasis on teaching children and youth to understand the world of work. For advanced students and experienced teachers. Must be taken in a,b sequence. Prerequisite: 20 hrs. in Technical and Industrial Education.

**425-2 to 8 Practicum in Technology.** Experiences in the industrial applications of technological knowledge. Cooperative arrangements with selected corporations and professional organizations provide opportunity to study technical problems in the industrial environment under the direction of specialists. Prerequisite: 12 hours in technical subjects.

**430-2 to 8 Special Problems in Industry and Technology.** Special opportunity for students to obtain assistance and guidance in the investigation and solution of selected technical problems. Prerequisite: consent of instructor.

**435-6 to 18 Manual Arts Internship.** Supervised hospital experience featuring various applications of manual arts therapeutical treatments. Prerequisite: consent of coordinator.

**450-1 to 12 (1 to 4 per quarter) Advanced Skills in Technical Subjects.** Modern industrial practices and techniques in various selected technical fields. For experienced persons seeking an opportunity to develop advanced techniques and to increase understanding in specialized industrial fields. Emphasis on modern industrial processes, methods, materials, and techniques used in school shops, drafting rooms, and industrial organizations. Prerequisite: basic training in area selected for study. Limited to certified teachers.

**465-8 (4,4) Industrial Safety.** (See Engineering Technology 465.)

**480-3 Curriculum Development in Industrial Arts Education.** Selection, development, and analysis of new concepts in technology, man, and enterprise for use in the schools. New methodology and apparatus for teaching are developed. For advanced students and experienced teachers. Prerequisite: 20 hrs. in TIED.

**485-3 Principles and Philosophy of Vocational and Technical Education.** (Same as Agricultural Education 485, Home Economics Education 485, Secondary Education 485, and Secretarial and Business Education 485.) Team teaching used. Gives an understanding of the nature and purposes of practical arts, vocational and technical education, their relationships and differences, and the place of each in preparing people for the world of work. Prerequisite: student teaching.

**487-3 Layout and Planning of Technical Facilities.** Principles and practices underlying the planning and designing of shops and laboratories in vocational, industrial, and technical education. Prerequisite: 12 hours in technical subjects.

**491-6 (3,3) Principles of Industrial Teaching.** (a) Problems and special methods in teaching industrial arts. (b) Emphasis on methods of teaching trade subjects. May be taken in either sequence. Required for vocational teachers, coordinators and supervisors. Prerequisite: one-half of concentration must be completed.

**494-3 Organization and Administration of Industrial Education.** Principles and policies governing the administration of industrial education programs in elementary, junior, and senior high schools; relation of federal and state supervision of industrial education to local administration. Required for vocational teachers and supervisors. Prerequisite: 12 hours in technical subjects.

**495-3 Occupational Analysis.** Involves the fundamental steps for analyzing trades and other occupations with some thought toward establishing appropri-



ate units of instruction for the apprentice or student. Jobs, operations, and essential related information are analyzed. Required for vocational teachers, coordinators, and supervisors. Prerequisite: 12 hours in technical subjects.

**496-3 Selection and Organization of Subject Matter.** Selection and arrangement of teaching content; preparation of assignment, operation, information, and job sheets; preparation of tests. Prerequisite: 12 hours in industrial education.

**497-3 Leaders and Literature in Technological Education.** An understanding of the literature available, one's obligation for keeping abreast of new developments and emphasis on reading and scanning for new ideas in student's specialized field. Prerequisite: 12 hours in industrial education.

**498-3 Planning Multiple Activity Programs.** Philosophy, techniques and administration of laboratories and shops featuring multiple offerings. Prerequisite: consent of instructor.

**502-6 (3,3) Measurements and Evaluations of Products and Procedures.** Criteria and instrument development, testing techniques, and appraisals. Special emphasis given to the principles and methods of evaluation of progress in laboratory and shop subjects of a practical arts nature. Experience in development and construction of pertinent and effective evaluative devices.

**504-4 History of Industrial and Vocational Education.** A study of the leaders, organizations, and movements in the evolution of modern technological education.

**505-4 Administration and Supervision of Industrial Education.** Principles, practices, and techniques relating to supervising and administering local programs. Required for vocational coordinators and supervisors.

**506-4 Cooperative Programs.** Problems and procedures involved in setting up and operating cooperative work-study programs. Required for vocational coordinators.

**525-3 Interrelated Vocational Cooperative Education.** (Same as Agricultural Education 525, Home Economics Education 525, and Secretarial and Business Education 525.) Team teaching used. Interrelated cooperative programs as they are developed in America, and especially Illinois, are presented. Coordinators' duties and responsibilities along with the operation of interrelated vocational cooperative programs are featured. Prerequisite: student teaching.

**540-2 to 6 Research in Technological Education.** Basic research methods and techniques in the design, investigation, and reporting of research studies relating to technology and technological education.

**541-4 Occupational Information and Guidance.** Designed for school counselors, industrial supervisors, and teachers to give them orientation to and experience with occupational information and vocational adjustment.

**550-4 College Teaching of Industrial and Technical Subjects.** Problems of college students and their adjustments to college-level industrial and technical subject-matter. Organization of instructional materials; methods of instruction; organization and administration of college laboratory facilities; and the professional problems, ethics, and advancement of college technical teachers.

**560-2 to 12 (2 to 8 per quarter) New Developments in Technological Education.** An intensive course designed to acquaint graduate students and teachers with the most recent and significant developments, pressing problems, and emerging trends in the industrial education and technical fields. Selected subjects will be considered by recognized authorities in the field, who will present their ideas and conduct discussions on the selected topics.

**570-2 to 6 Special Investigations.** (Same as Applied Science 570.)

**580-1 to 9 Seminar.** (Same as Applied Science 580.)

**599-1 to 9. Thesis.**

## Theater

**401-4 Creative Dramatics.** (See Speech 401.)

**402-8 (4,4) Play Directing.** (a) The principles and procedures of play direction including play selection, interpretation, and the patterning of auditory and visual stimuli. (b) Continuation of 402a emphasizing rehearsal procedures, control of tempo and mood, styles of presentation and performance, and other techniques in the direction of plays.

**403-4 Aesthetics of the Drama and the Theater.** Principles and practice of



modern dramatic production in the light of modern aesthetic theory. A course attempting to formulate an aesthetic judgment of the theater.

**404-4 Theater Management.** Theater operational procedure, including both fundamental structuring and house management. The former aspect includes administration, purchasing, and accounting practices, ticket sales, publicity, promotion, and public relations. The latter covers the management of box-office and ushering.

**405-8 (4,4) The Scenic Imagination.** (a) A study of the purely creative side of stage production. It includes an analysis of the script and its meaning for an audience; a poetic evaluation of the setting, costumes, and lighting; and the blocking out of the stage action. (b) Theater research and documentation; an approach to sketches and models; a review of the historic forms of staging, with emphasis on the modern styles from naturalism to epic theater.

**406-1 American Professional Theater Procedures and Practices.** An introduction to the everyday realities of a professional stage career, including problems of survival, professional ethics and protocol, personal relations, and the function of stage unions.

**409-4 High School Theater and Its Production Problems.** Consideration of stages, machinery, equipment, light controls and instruments, production techniques, and analysis of basic needs of high school theater.

**410-3 Children's Theater.** Creative dramatics; dramatization of children's literature; play production for elementary schools. Recommended for education concentrations.

**411-4 Playwriting.** The writing of a full-length play, a children's play, or a historical pageant-drama forms the basis of the course. Students may elect to write two one-act plays. Individual conferences supplement the class discussion and analysis of student writing. Prerequisite for graduate students: consent of instructor.

**412-4 Stage Design.** The design of settings for the stage and other dramatic media. Prerequisite: 207.

**414-4 Costume Design.**

**415-4 Advanced Costume Design.**

**416-4 Current Theories and Practices in the Teaching of Dance.** (See Physical Education 416.)

**417-4 Advanced Acting.** Lectures, readings, and practical application dealing with advanced studies of characterizations and acting styles on an individual basis. Prerequisite: 217, 317.

**432-4 Stage Lighting.** Instruments and control equipment; principles and techniques of lighting dramatic productions.

**438-4 Contemporary Developments in the Theater.** Critical study of theory and practice in acting, directing, production, and architecture in the modern theater. The rise and development of the film, radio, and television as dramatic media.

**502-4 Advanced Directing.** Study of and practice in the techniques of directing period plays, verse plays, music dramas, arena productions and other types and styles of plays presenting special directing problems.

**503-12 (4,4,4) Advanced Technical Problems.** Solutions of problems presented by certain types of plays and modes of production. (a) Scene design. (b) Stage lighting and sound. (c) Costume design. Prerequisite: consent of department.

**504-4 The Comic Theater.** A study of comedic theory as applied to major types of dramatic composition. Dramatic theories of comedy from Aristotle to Freud are explored. Individual reports.

**505-4 The Tragic Theater.** An examination of tragic drama and criticism as related to the societies which produced such drama. Particular emphasis is placed upon the Athenian, Elizabethan and modern theater.

**506-4 The American Theater.** The study of the development of the drama and the theater in the United States from colonial times to the present. Prerequisite: 313 or its equivalent.

**509-4 The High School Theater and its Production Problems.** Consideration of stages, machinery, equipment, light controls and instruments, production techniques, and analysis of basic needs of high school theater.

**518-4 Theater Audience.** A course attempting to determine (1) the relations between the drama, *mise-en-scene*, and theater audience; and (2) the psychological nature of the spectator's experience in the theater.



**519-1 to 12 Theater Practicum.** Practical experience in acting, directing, and associated work on campus, on area tours, and in summer stock.

**526-3 to 12 Seminar in Theater Arts.** Special problems of interest to advanced students. Subject is determined by the instructor. Seminar in same subject cannot be repeated. Prerequisite: consent of department.

**530-1 to 4 Research Problems in Theater.** Individual work upon selected problems for research.

**599-1 to 9 Thesis.** Minimum of 5 hours to be counted toward a master's degree.

## Zoology

**400-2 Animal Taxonomy.** The concepts of taxonomy and their use in zoology. Prerequisite: one year of biology or consent of instructor.

**401-5 Genetics.** Principles of inheritance, including genetic mechanisms, mutation, and selection. Prerequisites: 15 quarter hours of biological science and consent of instructor.

**402-4 Natural History of Invertebrate.** Observation, identification, and life histories. Designed for teachers. Not for students specializing in invertebrate zoology. Prerequisite: one year of zoology including 102.

**403-4 Natural History of Vertebrate Animals.** Observation, identification, and life histories. Designed for teachers. Not for students specializing in vertebrate zoology. Prerequisite: one year of zoology including 103.

**404-2 to 8 Zoology Field Studies.** A trip of four to eight weeks to acquaint students with animals in various environments and/or with methods of field study, collection, and preservation. Cost per individual will be approximately \$25 per week. (Only 4 hours may be used for credit.) Prerequisite: consent of department.

**406-4 Protozoology.** Taxonomy, cytology, reproduction, and physiology of unicellular animals including laboratory methods of culturing. Prerequisite: one year of zoology including 102 or consent of instructor.

**407-5 Parasitology.** Principles, collection, identification, morphology, life histories, and control measures. Prerequisite: one year of zoology including 102.

**408-4 Herpetology.** Taxonomic groups, identification, and natural history of amphibians and reptiles. Prerequisite: one year of zoology including 103.

**409-5 Histology of Organs.** Microscopic structure of organs and tissues with emphasis on mammalian forms. Prerequisite: 202.

**410-5 Vertebrate Paleontology.** History of vertebrate animals in terms of their morphological change, geological succession, and ecological relationships. Prerequisite: 202 or Geology 301.

**412-4 Advanced Entomology.** Morphology, physiology, systematics, and distribution of insects. Prerequisite: one basic course in entomology.

**413-5 The Invertebrates.** Structure, development, and natural history of invertebrates, except insects and parasites. Prerequisite: one year of zoology including 102.

**414-4 Fresh-Water Invertebrates.** Taxonomic groups, identification, and natural history of the regional fauna. Prerequisites: one year of zoology including 102.

**441-4 Developmental Biology.** Principles of development and organization. Prerequisites: 300 and one course in cellular physiology, or consent of instructor.

**459-4 Game Birds.** Natural history and management. Prerequisite: one year of zoology including 103.

**461-4 Mammalogy.** Taxonomic groups, identification, and natural history of mammals. Prerequisite: one year of zoology including 103.

**463-4 Wildlife Management.** General survey of management techniques. Prerequisites: one year of biological science, consent of instructor.

**465-4 Ichthyology.** Taxonomic groups, identification, and natural history of fishes. Prerequisite: one year of zoology including 103.

**466-4 Fish Management.** Sampling, dynamics, and manipulation of fish populations, age and growth of fishes, and habitat improvement. Prerequisites: one year of biological science, consent of instructor.

**508-4 Helminthology.** Identification, structure, physiology, and life history of parasitic worms. Prerequisite: consent of instructor.

**510-4 Bio-ecology.** (Same as Botany 510). Composition and development of

biotic communities, and the relationships of plants and animals to their environment. Cost of field trips may be \$10–\$25 per student. Prerequisite: consent of instructor.

**511–4 Limnology.** Principles exemplified by the lakes and streams of Southern Illinois. Cost of field trips may be \$10–\$25 per student. Prerequisite: consent of instructor.

**512–3 Animal Geography.** Principles of the distribution of the animals of the world. Prerequisite: consent of instructor.

**513–3 Advanced Ornithology.** Taxonomic groups, structure, and behavior of birds. Prerequisite: consent of instructor.

**520–5 Advanced Invertebrates.** The nature and life of invertebrate animals with emphasis on comparative form, function, behavior, and occurrence. Prerequisite: consent of instructor.

**521–4 Advanced Limnology.** The chemical and physical characteristics and biological productivity of waters. Cost of field trips may be \$10–\$25 per student. Prerequisite: consent of instructor.

**525–5 Cytology.** (Same as Botany 525.) Microscopic study of protoplasm, including mitosis and meiosis; discussions of cytological behavior. Prerequisite: consent of instructor.

**540–3 Factors in Animal Reproduction.** Genetic and physiological factors in determination, differentiation, and modification of sex in animals. Prerequisite: consent of instructor.

**542–3 Osteology.** Modification of the vertebrate skeleton as a result of growth, functional adaptation, and phylogenetic relationship. Prerequisite: consent of instructor.

**560–3 Advanced Wildlife Management.** Principles of maintenance, and improvement and administration of wildlife resources.

**561–4 Game Mammals.** Natural history and management. Prerequisite: consent of instructor.

**566–4 Fish Culture.** Production of game, food, and bait fishes. Design of facilities, chemical and biological variables, spawning techniques, diseases and nutrition. Prerequisite: consent of instructor.

**577–3 Population Ecology.** Principles of population dynamics as related to animals. Prerequisite: consent of instructor.

**578–4 Population Genetics.** Genetic structure of populations, factors causing changes, and principles governing rate and direction of change. Prerequisite: consent of instructor.

**579–4 Animal Behavior.** (Same as Psychology 579.) The biological basis for the actions and responses of animals. Prerequisite: consent of instructor.

**580–4 Advanced Systematics.** The implication of systematics, including the theory and dynamics of classification, speciation, population genetics, and evolution. Prerequisite: consent of instructor.

**581–3 Readings in Current Zoological Literature.** Prerequisite: graduate status in a biological science.

**582–1.5 (0.5, 0.5, 0.5) Graduate Zoology Seminar.** Credit may not be used by majors in zoology.

**583–3 (1,1,1) The Teaching of Zoology in College.** Methods, practices, and objectives in teaching zoology. Designed as part of the apprenticeship program for preparation of college teachers. Prerequisite: graduate status in a biological science.

**596–2 to 12 Special Research.** Investigations in zoology other than those for theses. Only 3 hours may be credited toward a degree. Prerequisite: consent of instructor.

**599–2 to 9 Research and Thesis.** For master's degree.

**600–3 to 48 Research and Dissertation.** For Doctor of Philosophy degree.



## 4 / Faculty

Graduate Instruction at Southern Illinois University is the responsibility of the faculty. Although the Graduate Faculty is not organized into departments, its members are normally affiliated with specific disciplines.

Preceding the Graduate Faculty is a list of faculty members elected to the Graduate Council for the year 1968–1969.

### The Graduate Council

James C. Austin, Professor of English  
Roger E. Beyler, Professor of Chemistry and Dean of the College of Liberal Arts and Sciences  
Gordon C. Bliss, Associate Professor of Teacher Education  
David Christensen, Professor of Geography and Assistant Dean of the College of Liberal Arts and Sciences  
Milton T. Edelman, Professor of Economics  
Lewis H. Hahn, Research Professor of Philosophy  
J. K. Leasure, Professor and Chairman, Department of Plant Industries  
Don A. Livingston, Associate Professor of Business Administration  
Allen J. McCurry, Associate Professor of History  
John M. H. Olmsted, Professor and Chairman, Department of Mathematics  
David G. Rands, Associate Professor of Chemistry; Chairman of the Council  
Charles E. Richardson, Professor of Health Education  
John A. Richardson, Associate Professor of Art  
Milton R. Russell, Associate Professor and Chairman, Department of Economics  
Clarence Stephens, Professor of Secondary Education  
E. Earle Stibitz, Professor of English

### College of Liberal Arts and Sciences

#### *Anthropology*

*Professors* Philip J. C. Dark, J. Charles Kelley, Charles H. Lange (*Chairman*), Robert L. Rands, Carroll L. Riley, Walter W. Taylor  
*Associate Professor* Jerome S. Handler  
*Assistant Professors* Milton Altschuler, Bruce B. MacLachlan, D. Lee Guemple, Joel Maring, Roy Wagner, Jon D. Muller

#### *Botany*

*Professors* William D. Gray, Robert H. Mohlenbrock (*Chairman*), L. V. Olah, Jacob Verduin, John W. Voigt  
*Associate Professors* William C. Ashby, Margaret Kaeiser, Oval Meyers, Jr., Aristotel Pappelis, Walter E. Schmid  
*Assistant Professors* W. Hardy Eshbaugh, Lawrence Matten, Donald R. Tindall

#### *Chemistry*

*Professors* Richard T. Arnold (*Chairman*), Roger E. Beyler, James BeMiller, Elbert H. Hadley, Robert W. MacVicar, Cal Y. Meyers, Robert E. Van Atta, Kenneth Van Lente, John Wotiz  
*Associate Professors* Albert L. Caskey, Herbert Hadler, J. Herbert Hall, Wilbur N. Moulton, Boris Musulin, Charles D. Schmulbach, Donald W. Slocum, Gerard V. Smith, Russell F. Trimble



*Assistant Professors* Paul Anderson, S. D. Darling, H. F. Gibbard, Conrad Hinckley, L. H. Klatt, D. F. Koster, James Tyrell

### *English*

*Research Professor* Harry T. Moore

*Professors* James Benziger, Hugh D. Duncan, William H. Evans, Joseph Friend, Thomas Kinsella, Sidney P. Moss, Henry Dan Piper, Howard Schultz, William E. Simeone, E. Earle Stibitz, Charles D. Tenney, David Vieth, Howard W. Webb, Jr. (*Chairman*), Georgia G. Winn

*Associate Professors* Ted R. Boyle, Edmund Epstein, John Gardner, Mark Hillegas, Paul Hurley, Paul H. Morrill, Charles Parish, Robert B. Partlow, Raymond S. Rainbow, James Redden, Manuel Schonhorn

*Assistant Professors* Bruce Appleby, William J. Brown, George Camp, Thomas Davis, George Goodin, Robert Griffin, Thomas Hatton, John Howell, Byron Raizis, Muriel West

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*Visiting Professor* T. W. Baldwin

### *Foreign Languages*

*Professors* A. W. Bork, J. Cary Davis, Hellmut A. Hartwig (*Chairman*)

*Associate Professors* Vernon L. Anderson, Howard French, David Gobert, James Kilker, Joseph Kupceck, Helmut Liedloff, Michael Rowland, Madeleine Smith, Hensley C. Woodbridge

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*Visiting Professors* Jenaro Artiles, Luis Baralt

### *Geography*

*Professors* Ronald I. Beazley, Douglas Carter, David Christensen, T. J. Dennis Fair, Campbell W. Pennington, Frank W. Thomas (*Chairman*)

*Associate Professors* David L. Jones, Theodore H. Schmudde, David M. Smith

*Assistant Professor* Sam Hilliard, John Rooney

### *Geology*

*Professor* Stanley E. Harris

*Associate Professors* Jen-Ho Fang, William C. Hood, Daniel N. Miller, Jr. (*Chairman*), John E. Utgaard

*Assistant Professors* Frank Bell, Richard Davis, George Frauenfelder, Don L. Sawatzky

### *Government*

*Professors* Abdul Majid Abbass, Orville Alexander (*Chairman*), Ikua Chou, Jack F. Isakoff, Horace B. Jacobini, Frank L. Klingberg, Robert McGrath, Ward M. Morton, Randall H. Nelson, Max W. Turner

*Associate Professors* John T. Ellsworth, William Garner, Charles T. Goodsell, Earl Hanson, William S. Hardenbergh, Melvin Kahn, David Kenney, Marian Ridgeway, Max Sappenfield

*Assistant Professors* John H. Baker, Richard Dale, Egon K. Kamarsy, Manfred Landecker, Norman R. Luttbeg, Leland G. Stauber, Jack R. Vander Slik, Stephen L. Wasby

*Instructor* Joann Paine

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*Visiting Professor* Frederic Guild

### *History*

*Research Professor* C. Harvey Gardiner

*Professors* George W. Adams, Harry Ammon, George L. Cherry, Betty Fladeland, Ping-Chia Kuo (*Chairman*)

*Associate Professors* Howard Allen, John Clifford, David E. Conrad, Lon R. Shelby, John Y. Simon, Henry S. Vyverberg

*Assistant Professors* Michel Batinski, Donald L. Brehm, M. Browning Carrott, Donald Detwiler, Robert Gold, Thadd E. Hall, Robert L. Hohlfelder, James B. Murphy, Eugene P. Trani, David P. Werlich, Stanley Zucker

*Lecturers* Edward O'Day, Clarence Hendershot

### Mathematics

*Professors* Nicolas Artemiadis, Amos Black, Lauwerens Kuipers, Carl E. Langenhop, Abraham Mark, Charles N. Maxwell, Wilbur C. McDaniel, John M. H. Olmsted (*Chairman*)

*Associate Professors* Zamir Bavel, Ward D. Bouwsma, Theodore Burton, Neal E. Foland, Leslie D. Gates, Robert A. Moore, Ernest E. Shult, Michael Skalsky, Herbert H. Snyder, Thomas H. Starks, Joseph C. Wilson

*Assistant Professors* Ramendra K. Bhattacharya, Charles F. Koch, Thomas B. Paine, Franklin D. Pedersen, Katherine L. Pedersen, Michael G. Poole, Norman F. Robinson, Carl G. Townsend

### Microbiology

*Professors* Maurice Ogur (*Chairman*), Isaac L. Schechmeister

*Associate Professors* Hassan Rouhandeh, Dan O. McLary

### Philosophy

*Research Professor* Lewis E. Hahn

*Professors* S. Morris Eames, Wayne A. R. Leys, William McKeefery, Willis Moore (*Chairman*), George Kimball Plochmann, Charles D. Tenney

*Associate Professors* James A. Diefenbeck, Elizabeth R. Eames, Don Ihde, George T. McLure

*Assistant Professors* David S. Clarke, Jr., John Howie, Matthew J. Kelley, Shuhsien Liu

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*Visiting Professors* Luis Baralt, Paul Schilpp

### Physics

*Professors* Martin Arvin, L. C. Marshall, Richard E. Watson, Otis B. Young (*Emeritus*), John Zimmerman (*Chairman*)

*Associate Professors* Ik-Ju Kang, William E. Nickell, Mykola Saporoschenko, Robert N. Zitter

*Assistant Professors* Gerald P. Alldredge, Subir K. Bose, J. Carrell Craig, C. C. Chang-Fang, John D. Cutnell, Walter C. Henneberger, W. Richard Klein, Gerald M. Lefebvre, Richard L. Linster, Edwin F. Pearson, John S. Sullivan

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*Visiting Professor* Se Hee Ahn

### Physiology

*Professors* Florence Foote, George H. Gass, Harold Kaplan (*Chairman*), Alfred W. Richardson

*Associate Professor* Tom T. Dunagan

*Assistant Professor* Donald M. Miller

### Psychology

*Research Professor* Noble Kelley

*Professors* David Ehrenfreund (*Chairman*), Alfred Lit, Donald J. Shoemaker, William C. Westberg

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*Assistant Professors* Stanley Brodsky, James W. Hill, Michael Hniatow, Jr., Charles J. Long, G. Donald MacLean, Donald Meltzer, James P. O'Donnell, Thomas Purcell, Robert C. Radtke, Richard C. Raynard, John F. Snyder

### Sociology

*Professors* Hugh D. Duncan, Thomas G. Eynon, Elmer Johnson, Herman R. Lantz, Peter A. Munch, Charles R. Snyder (*Chairman*)

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*Assistant Professors* Ernest K. Alix, George M. Camp, Joe C. Eades, Harry Gold, Norris C. Larsen, Robert D. Rossell

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*Visiting Professor* Alvin W. Gouldner



### Zoology

*Professors* Richard E. Blackwelder, Harvey I. Fisher (*Chairman*), Edwin C. Galbreath, Willard D. Klimstra, William M. Lewis

*Associate Professors* George Garoian, Hermann J. Haas, Frank B. Kulfinski, Jan Martan, Howard J. Stains

*Assistant Professors* Ronald A. Brandon, DuWayne C. Englert, William George, Eugene Lefebvre, Bruce W. Peterson, John B. Stahl, George Waring

*Instructor* Joseph Beatty

### College of Education

#### *Faculty of the Doctoral Program in Education*

*Administration and Social and Philosophical Foundations*—George Bracewell, Coordinator

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Jacob Bach

George Bracewell

P. Roy Brammell

Frank Bridges

Oliver Caldwell

George Counts

I. Clark Davis

Raymond Dey

Parmer Ewing

Woodson Fishback

William Freeberg

Jack Graham

Deward Grisson

James Herrick Hall

John Hawley

Robert Jacobs

Loren Jung

Dale Kaiser

John King

Arthur Lean

William McKeefery

William McKenzie

Malvin E. Moore

Charles Neal

William Ridinger

Donald Robinson

Edward Sasse

Dean Stuck

Richard Thomas

Donald Tolle

Andrew Vaughan

Herbert Wohlwend

Elwyn Zimmerman

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Frank C. Adams

Arthur Aikman

Bruce Appleby

Rebecca Baker

Donald Boydston

Luther Bradfield

Ernest Brod

Robert Buser

Gordon Butts

John P. Casey

L. Ralph Casey

Dorothy Davies

Raymond DeJarnett

Miriam C. Dusenbery

Troy W. Edwards

William Evans

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R. Jean Fligor

C. C. Franklin

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Winston G. Gray

Margaret Hill

James Jenkins

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Ronald Knowlton

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Willis Malone

Glenn Martin

William Matthias, Jr.

John Newport

William O'Brien

Donald Paige

Marjorie Potter

Ted Ragsdale

Victor Randolph

Charles Richardson

Robert Russell

Clarence Samford

Edward Shea

Fred A. Sloan

Ronald Stadt

Clarence Stephens

John Stotlar

Loren Taylor

JoAnne Thorpe

J. R. Verduin, Jr.

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*Educational Psychology*—J. W. Yates, Coordinator

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Bruce Amble

Nathan Azrin

Donald Beggs

Gerald Blumenfeld

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Elmer J. Clark

John J. Cody

James Crowner

Harold DeWeese

Kathleen Fletcher

John Grenfell

Donald Hake

Donald Ingli

Lee Joiner

Francis Kelly

Robert E. Lee

Jefferson Lindsey

G. Roy Mayer

Elizabeth McKay

Clinton Meek

Keith McNeil

David Miles

John Mouw

Aileen Parker

Dan Rainey

Guy Renzaglia

Harris Rubin

Richard Sanders

Thomas Shea

Marjorie Stull

Beth Sulzer

Edward Sulzer

Louis Viececi

Paul Wendt

Charlotte West

J. W. Yates



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Associate Professors Fred J. Armistead, Woodson W. Fishback, James Herrick Hall  
Assistant Professors Dale E. Kaiser, Edward B. Sasse, Herbert W. Wohlwend  
Lecturer Loren B. Jung

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Visiting Professors George S. Counts, K. L. Shrimali

*Elementary Education*

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Assistant Professors John Newport, Donald Paige

*Guidance and Educational Psychology*

Professors Elmer J. Clark, Francis J. Kelly  
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Assistant Professors Bruce R. Amble, Michael Altekruse, Donald Beggs, Gerald Blumenfeld, George Mayer, Keith McNeil, Beth Sulzer

*Health Education*

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Associate Professors Frank Bridges, Ralph Casey, Robert D. Russell, Charles E. Richardson, Andrew T. Vaughan  
Assistant Professor James Aaron

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Assistant Professor Elwyn Zimmerman

*Instructional Materials*

Professors Ralph E. McCoy (*Acting Chairman*), Paul Wendt  
Associate Professor Gordon K. Butts  
Assistant Professors Kathleen Fletcher, Donald A. Ingli

*Physical Education for Men*

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Associate Professors Ronald G. Knowlton, Morris G. Martin  
Assistant Professors C. C. Franklin, Larry Good, John Stotlar, James J. Wilkinson

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Associate Professors Marjorie Bond Potter, JoAnne Thorpe  
Assistant Professors Winston Gray, Charlotte West

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Assistant Professor William E. O'Brien

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 aia, Wesley Morgan, Phillip Olsson, Robert Resnick, Charles Taylor, Wil-  
 liam Taylor, John Wharton  
*Assistant Professors* George Hussey, Robert Kingsbury, Melvin Siener, Mari-  
 anne Webb, Kent Werner

## **School of Home Economics**

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### *Food and Nutrition*

*Professor* Frank Konishi (*Chairman*)  
*Associate Professors* Jennie M. Harper, Irene Payne

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*Visiting Professor* Hazel Thompson

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*Professors* Betty Jane Johnston (*Chairman*), Eileen Quigley  
*Associate Professors* George Carpenter, Michael Zunich

### *Home Economics Education*

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*Associate Professor* Dorothy M. Keenan

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*Visiting Professor* Opal Rhodes

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 ton, G. Robert Hoke, Eldred W. Hough, M. Keith Humble, Julian H.  
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### *SOUTHERN ILLINOIS UNIVERSITY FOUNDATION*

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*One Dollar*

# Southern Illinois University *Bulletin*

*1969/1970 Undergraduate Catalog*  
*Edwardsville Campus*

SIU

## OBJECTIVES OF SOUTHERN ILLINOIS UNIVERSITY

### TO EXALT BEAUTY

*In God,  
in nature, and  
in art;  
Teaching how to love the best  
but to keep the human touch;*

### TO ADVANCE LEARNING

*In all lines of truth  
wherever they may lead,  
Showing how to think  
rather than what to think,  
Assisting the powers  
of the mind  
In their self-development;*

### TO FORWARD IDEAS AND IDEALS

*In our democracy,  
Inspiring respect for others  
as for ourselves,  
Ever promoting freedom  
with responsibility;*

### TO BECOME A CENTER OF ORDER AND LIGHT

*That knowledge may lead  
to understanding  
And understanding  
to wisdom.*



# Southern Illinois University *Bulletin*

*1969/1970 Undergraduate Catalog  
Edwardsville Campus*



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## This Issue . . . . .

of the *Southern Illinois University Bulletin* covers in detail questions concerning the undergraduate program and applies to the Edwardsville Campus. It supersedes Volume 9, Number 11.

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# University Calendar

<i>SPRING, 1969</i>	Quarter Begins	Wednesday, March 26 *
	Memorial Day Holiday	Friday, May 30
	Final Examinations	Wednesday–Tuesday, June 4–10
	Commencement (Edwardsville)	Tuesday, June 10
	Commencement (Carbondale)	Wednesday, June 11

*SUMMER, 1969* Quarter Begins Tuesday, June 17 \*  
Independence Day Holiday Friday, July 4  
Final Examinations Monday–Friday, August 25–29  
Commencement (Edwardsville) Friday, August 29  
Commencement (Carbondale) Saturday, August 30

<i>FALL, 1969</i> New Student Week	Sunday–Tuesday, September 21–23
Quarter Begins	Wednesday, September 24 *
Thanksgiving Vacation	Tuesday, 10 P.M.– Monday, 8 A.M., November 25–December 1
Final Examinations	Monday–Saturday, December 15–20

<i>WINTER, 1970</i> Quarter Begins	Monday, January 5 *
Final Examinations	Monday–Saturday, March 16–21

<i>SPRING, 1970</i> Quarter Begins	Monday, March 30 *
Memorial Day Holiday	Friday, May 29
Final Examinations	Monday–Saturday, June 8–13
Commencement (Carbondale)	Friday, June 12
Commencement (Edwardsville)	Saturday, June 13

\* Classes begin with the evening classes after 5:30 P.M. on the Carbondale Campus and with the evening classes after 4:30 P.M. on the Edwardsville Campus.

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# 1 / The University

SOUTHERN ILLINOIS UNIVERSITY is a multi-purpose and diversified university that, since its establishment in 1869, has sought to meet the educational needs of the times for the people which it serves as a public institution. It is fully accredited by the North Central Association of Colleges and Secondary Schools.

Though the student population has increased manifold from its beginning, the formation of schools, colleges, divisions, and departments within the University enables the institution to concentrate on the special interests of its individual students. The University in total size now ranks twentieth in the nation. It offers facilities and faculty to give general and professional training to students ranging from two-year programs leading to associate degrees to the doctoral degree level.

Because of the growing demand for educational opportunities in the Madison-St. Clair counties area, the University established the Alton Residence Center and the East St. Louis Residence Center in 1957, the former on the campus of what used to be Shurtleff College, the latter in a senior high school building.

During the year 1958-59, communities in Madison and St. Clair counties launched a drive that helped acquire a large central campus site on the outskirts of Edwardsville, Illinois, approximately twenty miles east of St. Louis, Missouri. From what was once farm land has now risen a complex of uniquely designed buildings which constitute the Edwardsville Campus.

Thus, though Southern Illinois University is a single university, it has several campuses with the major designations being the Carbondale Campus, with its Vocational-Technical Institute and Little Grassy Lake installation, and the Edwardsville Campus, the latter including the East St. Louis Center, the Alton Center, and the campus at Edwardsville.

## Edwardsville Campus

The general administrative offices for the Edwardsville Campus are located on the central campus, which is comprised of 2,600 acres of rolling farm land and wooded valleys along the bluffs flanking the Mississippi River southwest of Edwardsville, Illinois.

The master plan for the Edwardsville site provides facilities for a daily commuting student body of 18,000.

Buildings now occupied are Lovejoy Library, Peck Classroom Building, Communications Building, Science Laboratory Building, the University Center, and the General Offices and Services Building. In the planning or construction stages are buildings for physical education and theater and fine arts, as well as an office wing on the Science Laboratory Building.

The facilities of the former Shurtleff College have been leased by the University for the operation of the Alton Center. Eight permanent build-

ings form the nucleus of this 40-acre campus. Nine additional buildings have been prepared on a temporary basis to meet current needs.

The East St. Louis Center is located on Ohio Street at Ninth and Tenth. Laboratories, classrooms, libraries, and other facilities of a former senior high school have been redesigned and equipped for university-level operation. In addition to the regular University offerings, the United States Office of Economic Opportunity is co-sponsoring with the University an experimental college project at this center.

### **The University Libraries**

The Edwardsville Campus libraries contain 370,000 volumes, 4,150 current periodicals, 50,000 maps, and 7,000 phonograph records.

Recognizing the importance of good libraries in a college education, the University has given attention to both quantity and quality of library development. During the past two years the collections have grown at the rate of more than 50,000 volumes a year. About ninety percent of the collections are housed at the Lovejoy Library at Edwardsville.

Lovejoy Library has four subject libraries—Education, Humanities and Fine Arts, Science, and Social Sciences and Business—and a General Reference Service.

Smaller collections at the Alton and East St. Louis libraries support the General Studies curriculum and special programs.

## 2 / Admission, Advisement, and Registration

IN ORDER TO attend classes at Southern Illinois University, one must gain official admission to the University and must complete the registration process, which includes specialized testing, advisement, sectioning, and payment of fees.

### Admission

Applications for admission to the University are accepted any time during the calendar year but should be initiated in ample time to permit the necessary work of processing to be completed.

#### *Admission of Freshmen*

To be eligible for admission, a person must be either a graduate of a recognized high school (graduates of non-recognized high schools may be admitted by the Director of Admissions by examination) or must have passed the General Educational Development Test. A person seeking admission through the latter procedure will be considered only after his high school class would have graduated.

In-state high school graduates who rank in the upper half of their graduating class based upon class rank or by scores on the American College Test (A.C.T.) will be permitted to enter any quarter, while those who rank in the lower half of their graduating class will be permitted to enter with a condition of Scholastic Warning for the summer quarter only. Please see pages 9 and 20 for further information.

Out-of-state high school graduates who rank in the upper forty percent of their graduating class based upon class rank or by scores on the American College Test (A.C.T.) will be permitted to enter any quarter, while those in the lower sixty percent but in the upper half of their graduating class will be permitted to enter conditionally during the summer quarter only.

Both in-state and out-of-state lower-ranking students who elect to enter during the summer quarter can qualify for fall quarter attendance by carrying a minimum academic load of 8 hours and completing them with at least a C average.

Students will be considered for admission after completion of the sixth semester of high school. All prospective freshmen must submit high school records and furnish University entrance examination scores prior to being admitted to the University.

All admissions granted students while in high school are subject to the completion of high school work and maintenance of rank upon which the admission was made.

A student entering the University as a freshman seeking a bachelor's degree is enrolled in the General Studies Division.



### *Admission of Transfer Students*

Students applying as undergraduate transfer students from four-year institutions are admissible to any quarter provided they had a 3.00 grade-point average at the institution of last attendance. Students who do not have a 3.00 grade-point average at the institution of last attendance but are eligible to continue will be considered for admission on probation for summer, winter, and spring quarters. Those who are not eligible to continue at their last institution will be considered for admission on probation for summer and spring provided there has been an interruption of schooling of at least two quarters' duration and there is tangible evidence that additional education can be successfully completed by the student.

In the event a student has attended more than one institution, the institution of last attendance is considered to be the one last attended on a full-time basis for at least one quarter or semester.

Students applying for admission from two-year institutions are subject to the same conditions specified above for transfer from four-year institutions. However, a student who did not meet the University's admission requirements to enter as a freshman from high school during the regular year and who elected to enter a two-year institution will not be considered for admission as a transfer student until he has completed one year of attendance at the two-year institution.

Also, students who have graduated with an associate degree in a baccalaureate oriented program from a two-year institution may enter Southern Illinois University any quarter without regard to their average provided they have not taken additional work since their graduation. If they have taken additional work, their admission will be considered from the same standpoint as a student transferring from a four-year institution.

Transfer students suspended for any reason other than academic failure must be cleared by the Dean of Students Office before admission will be granted by the Director of Admissions.

### *Admission of Foreign Students*

Each foreign student must submit, in addition to the regular admission papers, a questionnaire for foreign students showing all previous schooling. The foreign student must also submit an official statement showing sufficient proficiency in English to do successful college work (results of Test of English as a Foreign Language Examination). Such a student should make adequate provision for his financial needs and be able to provide a statement of such. The University does not assume responsibility for a student who arrives with inadequate financial resources.

### *Admission of Former Students*

A former student of Southern Illinois University not in attendance on a campus at the close of the quarter preceding application for admission must apply to the Admissions Office for re-entrance prior to registration.

A former student who is not in good standing must clear his status before the Admissions Office will prepare his registration permit. It is advisable for such a student to initiate re-entrance clearance early so that all inquiries may be answered and so that the applicant can find time to complete any requirements that may be imposed upon him.

### **Advisement**

After a student has been admitted to Southern Illinois University, he should talk with an adviser about his educational plans and complete his registration for the quarter he expects to enter the University.

To insure that an undergraduate student is properly advised concerning the choice of a course which will fulfill the requirements of the University and prepare him for his chosen career, academic advisement has been made the special responsibility of a group selected from the teaching faculty. During his first two years the student will receive prime advice from an adviser responsible to the Dean of General Studies. If he chooses to declare a special field of interest then, his General Studies adviser will refer him to someone representing his special field of interest for secondary advice; but formal admission to a specific field will be deferred until the student completes 64 hours of General Studies credit. All students in General Studies must initiate transfer into their chosen unit before enrolling again, after completion of 96 hours of credit.

After admission to some special field, the student will receive prime advice from a representative of that field.

### **Physical Examination**

Each new student desiring to enroll at Southern Illinois University is required to have a physical examination completed prior to his initial registration for classes. A special medical form is provided which is to be completed by the student and his personal physician and returned to the University Health Service.

### **Registration**

At Southern Illinois University, a system of advance registration is in operation. The period of time from the third through the tenth week of each quarter is used for advisement for the following quarter. For example, a student who plans to attend during the winter quarter may be advised between the third and tenth week, inclusive, of the fall quarter. A new student may also register on the opening day of each quarter. All students are urged to take advantage of the advance registration period.

Registration for any session of the University is contingent upon being eligible for registration. Thus, a registration including the payment of tuition and fees may be considered invalid if the student is declared to be ineligible to register due to scholastic reasons. The same situation may exist due to financial or disciplinary reasons if certified to the Registrar by the dean of the Student Affairs Division.

Detailed information about the dates and procedures for advisement and registration appears in the Schedule of Classes, available from Central Publications.

### **Tuition and Other Fees**

The fees charged students are established by the Board of Trustees and are subject to change whenever conditions make changes necessary. Those fees which will be in effect for the fall quarter of 1969 follow.



	Not more than 5 hrs.	More than 5, less than 11	11 or more
Tuition Fee—Illinois Resident .	\$22.00	\$45.00	\$67.00
Tuition Fee—Out of State . . . .	(69.00)	(137.00)	(206.00)
Student Welfare and Recreation			
Building Trust Fund Fee . . .	5.00	10.00	15.00
Athletic Fee . . . . .	3.00	6.50	10.00
Book Rental Fee . . . . .	3.00	6.00	8.00
Student Activity Fee . . . . .	3.50	7.00	10.50
University Center Fee . . . . .	5.00	5.00	5.00
<i>Total</i> —Illinois Resident . . . . .	<u>\$41.50</u>	<u>\$79.50</u>	<u>\$115.50</u>
<i>Total</i> —Out of State Resident .	(88.50)	(171.50)	(254.50)

In addition to the above fees, a student is subject to certain other charges under the following conditions:

1. A late registration fee, which is \$2.00 for the first day and which increases \$1.00 each day to a maximum of \$5.00 when a student registers after the regular registration period has ended.
2. A \$2.00 program change charge whenever a student changes his program from the one for which he originally registered, unless the change is made for the convenience of the University.
3. A graduation fee of \$17.00.

Students holding valid state scholarships are exempt from the above fees to the extent provided by the terms of the specific scholarship held. An Illinois State Teacher Education Scholarship, an Illinois Military Scholarship, or an Illinois General Assembly Scholarship exempts the student from the paying of tuition, the student activity fee, and the graduation fee.

The student activity fee includes the fees for limited hospitalization, entertainment, athletics, student publications, and such other privileges as may be provided.

Faculty members and university civil service employees taking courses are not charged tuition and activity fees. However, they pay all other appropriate fees.

Extension course fees are \$6.00 per hour plus a \$1.05 book rental fee per course. (Graduate students must purchase their textbooks.)

Adult education course fees are computed on the basis of approximately sixty cents per contact hour.

Other charges which a student may incur are those for departmental field trips, library fines, and excess breakage. Also, a student taking a course involving use of materials, as distinct from equipment, will ordinarily pay for such materials.

A student registering for work on an audit basis is assessed fees on the same basis as when registering on a credit basis.

A student is entitled to a free transcript of his university record each time he has added academically to his record through work taken at this University, provided he has fulfilled all his financial obligations to the University. There is a charge of \$1.00 for each additional transcript.

PAYMENT AND REFUNDING OF FEES

All fees are payable at the time of registration and are subject to changes whenever conditions necessitate changes.



Refunding of fees is possible only if a student has withdrawn from school, officially, within the first ten days of a quarter and only if the application for a refund is received in the Registrar's Office within ten school days following the last regular registration day. (See Registration Calendar in the Schedule of Classes for specific dates.) This means that for quarters starting on a Monday the withdrawal from school must have been officially made within the first two calendar weeks of the quarter and the refund application received by Monday of the third week. No refunding of fees is made for a withdrawal occurring after the first two weeks.

A student who originally pays full fees and then finds that he must reduce his program to fewer hours may receive a refund of the tuition and book rental fee equivalent to the number of hours remaining as indicated in the fee schedule, provided the reduction is officially made during the first ten days of the quarter.

### *Academic Load*

The normal academic load for a student is 16 hours. The maximum is 18 hours.

A student with a 4.25 grade-point average or above for the preceding quarter may be allowed by the head of his academic unit to take as many as 21 hours. In no case may a student carry, or be credited with, more than 21 hours in any quarter.

A student on scholastic probation may not take more than 14 hours without approval of the Dean of the General Studies Division. A student employed full-time should not register for more than 8 hours.

Ordinarily, a student must carry 12 or more hours per quarter to be considered a full-time student. However, a number of programs may carry different requirements and a student attending the University under a scholarship, loan, or other type of program requiring full-time enrollment, should check to make certain that he is meeting the requirements of his specific program. For example, Public Law 358 (the new GI Bill) requires 14 hours on the undergraduate level for full-time, 10 to 13 is considered three-quarter load, and 7 to 9 hours, half load. A student concerned with Selective Service on the undergraduate level needs to carry 12 hours to be considered full-time. However, for Selective Service purposes, a student must also be making satisfactory progress. Therefore, he needs to accumulate 48 passing hours each year. Because of this, he must consider 12 hours as only a minimum load for full-time purposes with 16 hours per quarter as the average load he must maintain throughout the year. Further information on both Public Law 358 and Selective Service is available in the Registrar's Office.

### *Unit of Credit*

Southern Illinois University operates on the quarter system. Therefore, references to hours of credit mean quarter hours rather than semester hours. One quarter hour of credit is equivalent to two-thirds of a semester hour. One quarter hour of credit represents the work done by a student in a lecture course attended fifty minutes per week for one quarter, and, in the case of laboratory and activity courses, the stated additional time.

### *Class Standing*

An undergraduate student is classified as a freshman, sophomore, junior, or senior, depending upon the number of hours he has successfully com-

pleted toward the degree. A freshman is a student who has completed fewer than 48 hours; a sophomore, from 48 through 95; a junior, from 96 through 143; and a senior, 144 or more.

Grading System

The following grading symbols are used for undergraduate work:

	GRADE POINTS PER HOUR
A—Excellent. ....	5
B—Good. ....	4
C—Satisfactory. (This is the grade for average performance.) ..	3
D—Poor. ....	2
E—Failure. ....	1
W—Authorized withdrawal with no basis for evaluation established. Work may not be completed.	
Wp—Authorized withdrawal with passing grade. Work may not be completed.	
WE—Authorized withdrawal with failing grade. Work may not be completed.	
Inc—Incomplete. Has permission of instructor to be completed.	
Def—Deferred. Used only for graduate courses of an individual, con- tinuing nature such as thesis or research.	
Abs—Unauthorized withdrawal. Same as <i>E</i> for academic retention purposes.	
S—Satisfactory. Used only for non-credit courses.	
U—Unsatisfactory. Used only for non-credit courses.	
Au—Audit. No grade or credit hours earned.	

All complete grades and the grades of *WE* and *Abs* are included in determining student grade-point averages for academic retention purposes.

Authorized course withdrawals made through the program change process do not receive grades when made during the first four weeks of a quarter. Thereafter, authorized withdrawals receive *Wp* for withdrawal with a passing grade, *WE* for withdrawal with a failing grade, or *W* when no basis for evaluation has been established.

Unauthorized course withdrawals which are made through failure of the students to continue in attendance receive a grade of *Abs*. An *Abs* grade for a student may be changed to a *W* in unusual circumstances upon the recommendation of the head of the student's academic unit.

An *Inc* grade may be changed to a completed grade within a time period to be designated by the instructor, not to exceed one year from the close of the quarter in which the course was taken; otherwise it remains as an *Inc* grade and is not included in grade-point computation.

A *Def* grade for course work of an individual nature such as research, thesis, or dissertation is changed to a completed grade when the project has been completed.

The grades of *S* and *U* are used to indicate satisfactory or unsatisfactory completion of a non-credit course.

A student registering for a course on an *audit* basis receives no letter grade and no credit hours. An auditor's registration card must be marked accordingly and he pays the same fees as though he were registering for credit. He is expected to attend regularly and is to determine from the instructor the amount of work expected of him. If an auditing student does not attend regularly, the instructor may determine that the student should



not have the audited course placed on his record card maintained in the Registrar's Office. A student registering for a course for audit or credit may change to a credit status or vice versa through the official program change method during the first four weeks of a quarter. Thereafter the change may not be made.

The official record of a student's academic work is maintained in the Registrar's Office.

*Scholastic Standards*

A student who fails to maintain a satisfactory grade-point average will be placed in categories other than Good Standing and may be required to discontinue attendance at the University for a period of time. (For transfer students, these requirements apply to his academic record at this University and to his over-all academic record.)

SCHOLASTIC WARNING

A student who is in Good Standing will be placed on Scholastic Warning at the end of a quarter in which he fails to make a 3.00 grade-point average provided he has calculated hours and an accumulative grade-point average as follows:

- fewer than 96 calculated hours and less than a 3.00 average,
- 96 but fewer than 144 calculated hours and less than a 3.10 average,
- 144 or more calculated hours and less than 3.15 average.

He is returned to Good Standing at the end of a quarter in which he makes a 3.00 average or better while on Scholastic Warning.

SCHOLASTIC PROBATION AND SUSPENSION

When a student on Scholastic Warning fails to make a 3.00 grade-point average for a quarter, he is placed on Scholastic Probation and may be subject to suspension from the University for scholastic reasons at the end of a quarter in which he fails to earn a 3.00 grade-point average while on Scholastic Probation.

To insure that a student is making progress toward the 3.00 grade-point average required for graduation he must maintain a progressively improving accumulative grade-point average. At the end of each spring quarter a student who has accumulated the number of calculated hours listed below must also have obtained the corresponding accumulative grade-point average:

QUARTER HOURS	REQUIRED AVERAGE
48- 95.5	2.60
96-119.5	2.70
120-143.5	2.80
144-159.5	2.90
160-	2.95

Otherwise he will be suspended from the University for scholastic reasons. He may seek reinstatement after a minimum of two quarters' interruption but must furnish tangible evidence that additional education can be successfully undertaken.

*Honors Day*

In recognition of high scholarship, an Honors Day convocation is held each spring. A candidate for a bachelor's degree in June or August who has maintained a grade-point average of 4.25 or more for all of his work



through the winter quarter of his senior year receives special honor. Each junior having a 4.25 grade-point average and each sophomore and freshman having a 4.50 grade-point average is also honored at the convocation. Except in the case of a graduating senior, a student must be attending full time to be eligible. A transfer student must have earned the average indicated for work at Southern Illinois University only, as well as for the total record. Graduating seniors are also recognized at Commencement on the graduation program, and their diplomas designate honors granted on the basis of Highest Honors (4.90 or higher); High Honors (4.75–4.89); and Honors (4.50–4.74).

### **Special Programs for Credit**

#### *Credit for Military Experience*

Credit will be accepted for USAFI courses within the limitations enforced for extension and correspondence work. No credit is allowed for college-level G.E.D. tests. In evaluating credit possibilities based upon formal service school training programs, the recommendations of the American Council on Education as set forth in the Guide to the Evaluation of Educational Experiences in the Armed Forces are followed.

In order to receive credit for military service a veteran must present a copy of his separation papers to the Registrar's Office.

#### *Extension and Correspondence*

A maximum of one-half of the number of hours required for the bachelor's degree, or 96 hours, may be taken by extension and correspondence courses combined. Of this total, not more than 48 hours may be taken in correspondence courses.

While Southern Illinois University does not maintain a correspondence division, courses taken by correspondence from institutions which are accredited by their appropriate regional accreditation association are regularly accepted if the grade earned is C or above.

#### *The Deans College*

The Deans College has been created to help outstanding students find an academic program that is more relevant to their needs and perhaps may carry them further along the road to professional competence than the usual undergraduate programs.

In general, a 4.5 grade-point average is required for admission to the Deans College, but students with outstanding high school records, and others highly recommended by reason of talent by a teacher, may be admitted directly from high school. Students selected for the Deans College must complete the usual 192 hours for the bachelor's degree.

Each Deans College student is assigned a senior faculty adviser who is a member of the Deans College, and whose field of interest reflects that of the student. The student works out with his adviser a program of studies based upon the student's needs and capabilities. This program, assigned on the authority of the adviser and the Deans College Coordinator, substitutes for all other University and divisional requirements. With the adviser's cooperation, a student may take up to 4 hours of honors work each quarter of full-time enrollment.

Interested students seeking additional information concerning the Deans College should write or call the Deans College Coordinator.

# 3 / General Studies

STUDENTS WHO EXPECT to receive the baccalaureate degree from this University must complete the General Studies Program.

A General Studies Committee, composed of faculty representatives and administrators, is responsible for determining broad policies and approving specific courses and sequences of courses to be offered. The Dean of the General Studies Division is responsible for the implementation of these policies. The individual courses are taught by the academic division for which the courses were approved.

In order to graduate from the University with a bachelor's degree, a student must satisfy the General Studies requirements which are explained in this chapter. He must also satisfy the requirements for an area of concentration (major), and in many cases, a secondary concentration (minor). If the student plans to teach in an elementary or a secondary school, he should meet the requirements for teacher certification. There are also specific requirements for graduation for each degree. For graduation requirements other than General Studies, the student should examine the related sections of this catalog.

## **Aims and Purposes of the General Studies Program**

The education of an enlightened people through the transmission of the culture of our times is a basic objective of higher education. Specialists themselves realize that rigid concentration within any field of study may deprive them of broader understandings so important for participation in life as citizens and parents. Our educational efforts, therefore, must produce individuals with an ability to use knowledge in a way which also advances social and cultural life. Our kind of free and democratic society cannot endure without such citizens.

General Studies are only part, not the whole, of man's education. While General Studies can conceivably help a student in his choice of occupation and can contribute to his success in a given occupation, their principal objective is not to develop vocational skills. They comprise that portion of the total curriculum which is concerned with the common needs of man and which assist the student to be more at home in a world that increasingly demands more of all men in terms of the intellectual, spiritual, and social. It is vitally necessary to prepare each student to assume his proper responsibilities in a world of rapidly expanding knowledge, of rapidly expanding population, technological advance, and consequent changes.

There is a basic unity of knowledge which the General Studies Program attempts to exhibit. The General Studies Program tries to lay a foundation upon which the student will build a superstructure of understanding and achievement. Such a background should complement the specialized studies which the student undertakes in pursuing his concentration.



An opportunity is provided for the student to gain experience in several subjects and, hopefully, to make an unhurried selection of a professional goal and an area of concentration for his total educational program. If a student has made a tentative choice of his educational goal, he may carry courses in his area of special interest concurrently with the basic courses of the General Studies curriculum.

The General Studies curriculum at Southern Illinois University is one of unique quality, and accommodates many different levels of preparation for college. This philosophy permits the greatest possible number of persons an opportunity to reach their fullest potential while concurrently directing their efforts towards a stronger and happier democratic society.

### **The Five General Studies Areas**

The General Studies Program utilizes a classification of knowledge into five comprehensive areas, each of which has a special contribution to make toward the development of the individual. A man, to be truly educated, should have some familiarity with each of these areas. Each area is designated by a particular letter.

Area A—Man's Physical Environment and Biological Inheritance—includes the subjects generally called "science." The General Studies science courses aim to provide the student with an understanding of the structure of the sciences, the conceptual schemes they employ, the forms of reasoning used to reach their conclusions, and the procedures used to verify their validity. Improved understanding should lead to interest in the sciences and appreciation of the role of the sciences in human experience. The student who approaches the study of science with an appropriate attitude should find that discovery is a delightful intellectual experience.

Area B—Man's Social Inheritance and Social Responsibilities—is concerned with those subjects generally referred to as the "social" sciences. It is the aim of the courses in this area to help the students develop an awareness of man's role in society, an ability to think intelligently about their environment, and an alertness to the complexities of the modern world. The courses in Area B should assist the students in understanding the way men are shaped by the social processes. Study in the area should make students aware that their attempt to define these processes may increase their ability to determine their own destinies. It is easy to see the importance of the great technological advances of the industrial revolution. But, it should not be overlooked that all scientific and mechanical innovations must attain their significance in a setting of human interrelationships and responsibilities.

Area C—Man's Insights and Appreciations—includes the subjects usually referred to as "humanities" and "fine arts." Amid all the changes in history, man in many basic ways is the same as he has always been. Human beings today experience the same basic desires and hopes, the same fears and failures, that they did in ancient times. And it is with these human constants that Man's Insights and Appreciations is most concerned. Of course, it is also concerned with the changing ways that these unchanging elements have been dealt with, with the unique ways man has expressed himself about them, but underneath is the permanency of the human experience itself. The title Man's Insights and Appreciations aptly describes the concepts to be studied in this area. The student



has an opportunity to enrich his own insights and appreciations. It is further hoped that he will be able to develop his own sense of values. For example, in philosophy and design, one can discover fundamental connections among various areas of human experience. In literature and philosophy one confronts various problems of good and evil and may be stimulated to clarify his own values. In the study of the various arts one ought to be able to come to a better appreciation of the creativity of others and even share directly in this experience. All told, it is hoped that this kind of study contributes to what in an earlier time of history was spoken of as "wisdom."

**Area D—Organization and Communication of Ideas**—deals with the general area of communication in a broad sense. Subjects like English, speech, foreign languages, and mathematics are included. Effective communication of ideas is basic to organized society. Transmission of information from one human being to another enables the second person to benefit from the experiences and insights of the first. Mutual exchange of ideas can be quite helpful. The experience of centuries can be communicated to those who live in the present. Language, whether oral, written, or symbolic, is the fundamental means of communication.

**Area E—Health and Physical Development**—includes the subjects of physical education and hygiene. Because life does put such a demand on self-discipline, compulsion of performance, and in many cases rigid standardization of programs, many students need and seek an outlet for a healthy expression in some recreational activity. Health is the foundation for all of one's activities. Health does not mean merely that the individual is free from illness. Rather, it implies a positive state of complete physical, mental, and social well-being.

### General Studies Requirements

The specific requirements in General Studies are listed and explained in this section. These general statements must be qualified in many cases by the variations and exceptions explained in the section following this one. Since each student has a third-level waiver, he should check that section.

The General Studies courses are classified into the five previously-listed areas. Within each area, there may be as many as three levels—100, 200, and 300.

In the following, a listing such as GSA 101-8 (5,3) (physics-chemistry) refers to the course sequence numbered 101; 8 refers to the total of the two parts, in this case a and c, in General Studies Area A which carries 5 hours' and 3 hours' credit with the general subject matter listed. The listing GSC 151-3 Introduction to Poetry refers to the course numbered 151 in Area C and indicates that it carries 3 hours of credit and consists of only one part. See Chapter 8 in which the courses are described in detail.

**Area A**—Each student must meet a requirement of 22 hours. He must complete an 8-hour sequence on the first level. The two sequences currently offered are GSA 101-8 (5,3) (physics-chemistry) and GSA 110-8 (4,4) (earth science).

On the second level he must complete an 8-hour sequence. The sequence currently offered is GSA 201-8 (4,4) (biology).

On the third level, 6 hours are required (unless the student is entitled to a waiver in this area). This requirement is met by taking any two of

the third-level courses in Area *A* (not necessarily a sequence), with the exception that GSA 330 and GSA 331 may not both be counted toward the requirement.

Area *B*—The requirement in Area *B* is 22 hours. Each student must complete an 8-hour sequence at the first level. Currently offered are GSB 101-8 (4,4) (history) and GSB 103-8 (4,4) (sociology-economics).

At the second level a sequence of 8 hours is required. At present the two sequences available are GSB 201-8 (4,4) (anthropology, psychology) and GSB 203-8 (4,4) (government, geography).

At the third level, the student may select any two GSB courses numbered 300-399 for 6 hours of credit. (Note the exception if this is the area of the student's waiver.)

Area *C*—The Area *C* requirement is 22 hours. At the first level, the student must complete 8 hours. As presently constituted, the student must complete GSC 151-3 (poetry) and one of the courses GSC 155-5 (art), GSC 156-5 (music), GSC 157-5 (dramatic media), or 158-5 (fine arts).

At the second level the student takes GSC 252-4 (logic) and one of the courses GSC 253-4 (literary masterpieces) or GSC 254-4 (philosophical masterpieces).

Third-level requirements are completed by any two GSC courses numbered 300-399 for 6 hours of credit. (See note about waiver.)

Area *D*—This area requires 18 hours. Nine of these are satisfied by GSD 101-6 (3,3) (English composition) and GSD 103-3 (speech). The remaining 9 hours are met by completing either a sequence of three General Studies courses in one foreign language or a sequence of 9 hours in General Studies courses in mathematics. Foreign language courses now being offered are: GSD 123-9 (3,3,3) (French); GSD 126-9 (3,3,3) (German); GSD 136-9 (3,3,3) (Russian); GSD 140-9 (3,3,3) (Spanish); GSD 144-9 (3,3,3) (Italian).

Mathematics sequences which may be selected are GSD 112-9 (4,5) (Introduction to Mathematics) or GSD 114-9 (5,4) (algebra, trigonometry) or GSD 114-9 (5,4) (algebra, statistics). In making the choice between foreign language or mathematics, the student should note that some concentrations and degrees have specific requirements in these subjects. The student should check those requirements before he makes his selection. Students having had high school foreign language or mathematics should see a General Studies adviser for exemption or advanced standing possibilities.

Area *E*—The requirement for Area *E* is 6 hours. On the first level of Area *E*, each student is required to take GSE 116a-1 (swimming), and GSE 102-1 (physical fitness—men) or GSE 112-1 (basic body movement—women) plus 1 additional hour of General Studies physical education courses, thus making a total of 3 hours. A student who passes a swim test or for whom no swimming facilities are provided must take 102 or 112 and 2 hours from 117 or 118. Until adequate facilities are available, each student, for General Studies purposes, is excused from 1 hour of the physical education requirement for each quarter of attendance in which more than one-half of his credit hours are taken at Edwardsville.

On the second level, each student is required to take GSE 201-3 (health education).

In summary, the student must satisfy a total of 84 hours of credit in General Studies.



In each of the Areas *A*, *B*, and *C* he presents 22 hours except for the area of his waiver (see the following section) in which he presents 16 hours. Area *D* requires 18 hours and Area *E* requires 6 hours.

### Flexibility, Variations, and Exceptions

The total requirements of General Studies may be partially satisfied, reduced, or modified by several considerations which are discussed in this section.

#### *The Third-Level Waiver*

Each student is entitled to waive the third-level courses in the area (*A*, *B*, or *C* only) most closely related to the area in which he will concentrate his work. The following third-level waivers have been approved:

Area *A*—applied science; biology; chemistry; engineering electronics, engineering physics; general science and mathematics; health, recreation, and physical education; mathematics; medical technology; nursing; and physics.

Area *B*—American studies (*B* or *C*), anthropology, business administration, business teacher education, economics, geography, government, history, psychology, public administration and planning, sociology, and speech pathology and audiology (*B* or *C*).

Area *C*—American studies (*B* or *C*), art, art education, elementary education, English, foreign language, music, philosophy, professional writing, special education, speech, speech pathology and audiology (*B* or *C*), and theater.

#### *Advanced Standing*

It is possible for a student to gain advanced standing (that is, to by-pass certain requirements without credit in the corresponding courses) in some areas. Eligibility for advanced standing is determined upon the basis of high school preparation in the area, scores on the A.C.T. test, and/or scores on special advanced standing examinations. The student should consult his General Studies adviser about specific possibilities for advanced standing. Following are the current criteria or qualifications for advanced standing for certain General Studies courses in each area. (The A.C.T. percentiles used are college-bound percentiles.)

#### AREA A

- 101a-5 Introduction to Physical Science (physics).  
One year of high school physics, 25th percentile on A.C.T. mathematics test, and 85th percentile on A.C.T. natural science test; or by examination.
- 101c-3 Introduction to Physical Science (chemistry).  
One semester of high school chemistry, 25th percentile on A.C.T. mathematics test, and 85th percentile on A.C.T. natural science test; or by examination.
- 110a-4 The Earth and Its Environment (earth science).  
One course of earth science in high school, 85th percentile on A.C.T. natural science test; or by examination.
- 110a,b-8 The Earth and Its Environment (earth science).  
One year of earth science in high school, 85th percentile on A.C.T. natural science test; or by examination.



- 201a,b-8 Man's Biological Inheritance (biology).  
Two years of high school biology with a minimum grade of *B*, 85th percentile on A.C.T. natural science test.

## AREA B

- 101b,c-8 Survey of Western Tradition (history).  
One year of world, western, or European history in high school, 90th percentile on A.C.T. social science test; or by examination.
- 103a-4 Sociology-Economics (sociology).  
A course in sociology in high school, 90th percentile on A.C.T. social science test; or by examination.
- 201c-4 The Individual and His Cultural Environment (psychology).  
A course in psychology in high school, minimum grade of *B*, 85th percentile on both the natural science and social science sections of A.C.T.
- 203a-4 American Politics in the World Environment (government).  
A course in American government in high school, 90th percentile on A.C.T. social science test. (Advanced standing will *not* meet the Constitution requirement.)
- 203b-4 American Politics in the World Environment (geography).  
A course in geography in high school, 90th percentile on both the social science and the natural science sections of the A.C.T.; or by examination.

## AREA C

- 151-3 Introduction to Poetry (composition and poetry).  
By examination only.
- 253-4 Literary Masterpieces of Antiquity.  
By examination only.
- 254-4 Philosophical Masterpieces.  
By examination only.

## AREA D

- 101a-3 English Composition (composition and literature).  
Minimum ranking of 70th percentile on English section of A.C.T. and 85th percentile on E.T.S. Reading Comprehension Test (administered on campus).
- 101b-3 English Composition (composition and literature).  
By examination only.
- 103-3 Oral Communication of Ideas (speech).  
A course in speech in high school, 85th percentile on A.C.T. English test; or by examination.
- 123-144 Foreign Languages.  
Student is exempted from the 9-hour sequence if he has had two years of foreign language in high school; or by examination.
- 114a-5 College Algebra.  
A course in college algebra, a year of plane geometry, a course in trigonometry, 75th percentile on A.C.T. mathematics test; or by examination.
- 114c-4 Trigonometry.  
Two years of algebra, a year of plane geometry, a course in trigonometry, 75th percentile on A.C.T. mathematics test; or by examination.

### *Proficiency Examinations*

Students with superior backgrounds in certain subjects may qualify to receive credit in related courses by demonstrating their achievement through proficiency examinations. These examinations are available in all General Studies courses as well as certain courses in other subjects.

The Proficiency Examination Program (including non-General Studies courses as well as General Studies courses) is administered by the Dean of the General Studies Division.

A student who desires to take a proficiency examination should initiate the procedure with a General Studies adviser. The adviser has the student fill out the form for requesting the examination, and furnishes related information if requested to do so. In most cases, course guides and reading lists are available for persons interested in taking the proficiency examination.

Any student may take any available proficiency examination subject to the following limitations: (a) A maximum of 48 hours, including credit earned through the College Entrance Examination Board's Advanced Placement Program, may be gained through proficiency examinations. (b) A student may not take a proficiency examination for a specific course more than once, nor may he take a proficiency examination in a course in which he has previously received a grade, nor in a course which is a prerequisite for a more advanced course which the student has already completed. (c) No credit granted by proficiency examination may be recorded until the student has earned at least 16 hours' credit of *C* grade or above in residence at this University.

After a student has completed a proficiency examination, he shall be granted credits and grade-points according to the grade achieved on the test, as follows: (a) If a student receives a grade of *A* or *B* on a proficiency examination, his record shows the name of the course, hours of credit granted, the grade earned, and a notation "credit granted by proficiency examination" and the grade earned counts in the grade-point average. (b) If a student receives a grade of *C* on a proficiency examination, his record shows the name of the course, the hours of credit granted, and a notation, "credit granted by proficiency examination," and the grade earned does not count in the student's grade-point average. (c) If a student receives a grade of *D* or *E* on a proficiency examination, he does not receive credit and his record shows nothing regarding the proficiency examination. However, the proficiency examination grade report form is filed in the student's folder for reference purposes, and to prevent re-examination.

### *Substitution*

In a limited number of cases, a student may be permitted to substitute courses in other disciplines for the regularly prescribed General Studies courses. The following substitutions have been approved for students whose concentration is in the Science and Technology Division or in the Department of Nursing: Physics 206a,b-10 for GSA 101a-5; Physics 206a,c-10 for GSA 101a-5; Physics 211a,b-8 for GSA 101a-5; Physics 211a,c-8 for GSA 101a-5; Chemistry 110-4 for GSA 101c-3; Chemistry 111a-5 for GSA 101c-3; Chemistry 111b-5 for GSA 101c-3; Mathematics 111a,b-10 (no longer offered) for GSD 114a,c-9; Mathematics 111a,b-10 (no longer offered) for GSD 114a-5; Mathematics 410-8 for GSD 114d-4.



Students concentrating in Art and Design may substitute Art 225a,b,c-9 for one of the General Studies courses: GSC 155, 156, 157, or 158.

### *College Entrance Examination Board*

A high school student who is qualified through registration in an advanced placement course in his high school or through other special educational experience may apply for advanced placement and college credit through the Advanced Placement Program of the College Entrance Examination Board, 475 Riverside Drive, New York, New York 10027.

Advanced classes which qualify for this purpose are offered in many high schools in specific subjects, such as English composition, a foreign language, history, biology, chemistry, mathematics, or physics. A national examination is given in each subject, administered through the Educational Testing Service, which is intended to measure the achievement of the student, and determine at what point the student should begin college study of that subject. Each examination is prepared by a national committee of high school and college teachers. Grades are assigned as follows: 5, high honors; 4, honors; 3, creditable; 2, pass; and 1, fail. The marked papers are sent to the university which the student has indicated that he will attend. To receive credit, a person must normally earn a grade of 5, 4, or 3 on the examination provided by the College Entrance Examination Board at the completion of the high school course.

Ordinarily, the maximum credit granted through the CEEB examinations is 16 hours. It is non-resident credit, does not carry a grade, and is not used in computing the student's grade average. Credit granted at another accredited college or university under this plan is transferable to this University up to a maximum of 16 hours. A student may appeal to his academic dean to be granted more than 16 hours.

The following courses are those in which a student may currently earn credit through the Advanced Placement Examination of the College Entrance Examination Board.

- (1) Physics: 206a-5, 206b-5, 206c-5.
- (2) Chemistry: GSA 101c-3, 111a-5, 111b-5, 111c-5.
- (3) Biology: GSA 201a-4, GSA 201b-4.
- (4) History: European: GSB 101b-4, GSB 101c-4; American: GSB 300a-3, GSB 300b-3, GSB 300c-3.
- (5) English: GSC 151-3, GSD 101a-3, GSD 101b-3.
- (6) Foreign Languages: French: GSD 123-9, French 123-3, French 201-3; German: GSD 126-9, German 126-3, German 201-3; Spanish: GSD 140-9, Spanish 140-3, Spanish 201-3.
- (7) Mathematics: 150a-4, 150b-4.

As previously indicated, students who achieve a grade of 5, 4, or 3 on the CEEB Advanced Placement Examinations receive credit for the appropriate courses, except in chemistry where a score of 3 does not provide credit.

### *Modifications of the Original General Studies Program*

Students who matriculated under the original General Studies Program (1962-1966) may be able to benefit by utilizing certain provisions of the revised program.

If the student chooses, and the faculty of his concentration approves in writing, he may exercise a third-level waiver under the new pattern instead of a first-level waiver as under the original pattern.



If the student did not have a waiver originally, he now has one as far as General Studies is concerned.

A student under the original General Studies Program may now be able to meet a first- or second-level sequence requirement with new courses in an 8-hour sequence instead of the previously required 9 hours. If the student has an incompleted sequence, he should discuss with a General Studies adviser the appropriate means of completing the sequence.

### *Effect of Concentration Requirements*

The student should be careful to note that certain areas of concentration (as described elsewhere in this catalog) have specific requirements which have the effect of reducing the choices the student normally has in General Studies. For example, the area of concentration may require a specific General Studies course or sequence whereas the General Studies requirements provide an option or a waiver. It should be clear to the student that these are requirements of the concentration, not of General Studies.

### *Transfer Credit*

See the section, General Studies and the Transfer Student, at the end of this chapter.

### *The General Studies Advisement Office*

The General Studies Division maintains a General Studies Advisement Office at each of the centers (Edwardsville, Alton, East St. Louis) for the assistance of students.

Each student in the Division is required to be advised by a General Studies adviser for each term of attendance. Appointments for such advisement should normally be made early in the preceding quarter, well in advance of the registration period for the quarter in which the student plans to attend. Appointments may be made with the General Studies Advisement Office at East St. Louis, at Alton, or at Edwardsville, regardless of which center the student plans to attend. New students are sometimes advised as part of a group orientation procedure and should not make individual appointments for advisement if the group orientation and advisement is being provided.

If a student has made a tentative selection of his educational goal, the adviser assists the student in selecting courses in his area of special interest if it is appropriate to do so. The adviser can refer a student to other sources of assistance, including concentration advisers, if more detailed information about specific programs is needed. Questions related to the specific applications of the General Studies requirements should be clarified with a General Studies adviser while the student is in the General Studies Division.

The General Studies Advisement Office does the initial processing for declarations of concentration, change of concentration, requests for proficiency examinations, advanced standing, etc. (See the appropriate sections for statement of related policies.)

### *Probationary Students*

The General Studies Advisement Office advises every student who is on scholastic probation. Each undergraduate student on probation, including those who have officially declared a concentration (major), must see a General Studies adviser and get his class schedule approved before he

may register. A student on probation may not take more than 14 hours without special permission. If a probationary student is employed full-time, 7 hours is the normal maximum.

It is especially important that students on probation understand the rules relating to scholastic standing as summarized in the next section.

### *Scholastic Standing*

In order to complete a degree on this campus, a student must have achieved at least a *C* average (3.00 on a 5.00 scale) in all of his work and also in his area of concentration. For a transfer student, these rules apply to his academic record at this University as well as to his over-all academic record.

There are four classifications of students with respect to their academic standing: (a) Good Standing, (b) Scholastic Warning—Good Standing, (c) Scholastic Probation, (d) Scholastic Suspension.

Each student admitted to the University is assigned to one of the first three classifications on the basis of his high school record, A.C.T. test scores, and the quarter of first attendance.

In order to remain on Good Standing, a student's overall cumulative average must equal or exceed the following standards: (a) if he has fewer than 96 calculated hours, a 3.00 average, (b) if he has 96 to 143 calculated hours, a 3.10 average, (c) if he has 144 or more calculated hours, a 3.15 average.

A student on Good Standing is placed on Scholastic Warning at the end of the quarter if he fails to make a 3.00 or better for the term provided his overall average does not meet the standards for remaining on Good Standing as listed in the preceding paragraph.

If a student on Scholastic Warning makes a 3.00 or better for the term, and meets the standards for the cumulative average, he is returned to Good Standing. If he makes a 3.00 for the term but does not meet the cumulative grade-point standards, he remains on Scholastic Warning. If he makes less than a 3.00, he is placed on Scholastic Probation for the following quarter.

If a student on Scholastic Probation makes a 3.00 or better for the term, and his cumulative average meets the requirements for Good Standing, he is placed on Good Standing. If he makes a 3.00 or better but does not meet the standard for the cumulative average, he will be on Scholastic Warning. If he fails to make a 3.00 for the term, he is placed on Scholastic Suspension and is dropped from the University. Ordinarily, two quarters must elapse before a suspended student is eligible for re-admission. The student may also be requested to furnish tangible evidence that additional education can be successfully undertaken.

At the end of the spring quarter, a special "spring suspension rule" is applied. Regardless of the student's standing at the beginning of the spring term, he is suspended if he fails to make a 3.00 average for the term and also fails to meet the following standards for his overall cumulative grade-point average in relation to his accumulated calculated hours:

QUARTER HOURS	REQUIRED AVERAGE
48– 95.5	2.60
96–119.5	2.70
120–143.5	2.80
144–159.5	2.90
160–	2.95



*Transition from the General Studies Division to Another Division*

A student ordinarily is classified into the General Studies Division until he officially declares an area of concentration. In order to do this, he must have completed 64 quarter hours of credit. He is required to make this declaration before he enrolls for his 97th hour. The student initiates his declaration of concentration in the General Studies Advisement Office. After a student has officially declared a concentration, he is classified into the academic division which grants the degree sought by the student. If a student is going into an associate degree curriculum, however, he may declare his concentration and be classified into the appropriate division without having completed any hours. In fact, it is desirable for such a student to make his declaration as early as possible.

The student should not confuse the official declaration of concentration with the indication of interest forms used while the student remains in the General Studies Division.

A student who wishes to change his area of concentration should return to the General Studies Advisement Office to initiate a new declaration of concentration.

A transfer student entering with 96 or more hours must make an official declaration of concentration with the General Studies Advisement Office before he registers for classes.

*General Studies and the Transfer Student*

Students who transfer to Southern Illinois University from an accredited university, college, or junior college have their work evaluated for purposes of meeting the general degree requirements, including the General Studies requirements. Three-fourths of the credit hours accepted for transfer must have a grade of *C* or higher. All grades earned at other institutions are used in determining the student's grade-point average. In general, equivalent work in appropriate areas is applied to meet the requirements. Other courses may be accepted for general credit and may apply toward concentration or other requirements. Students now attending another college who intend to transfer to Southern Illinois University should plan their courses to complete specific sequences if possible.

Semester hours transferred are computed on the basis of 3 quarter hours' credit for each 2 semester hours accepted. A student transferring a 3 semester hour course, for example, will receive 4.5 quarter hours' credit.

If, at the time of original entry into the University, the transfer student is given *no* credit for course work in one of the General Studies Areas *A*, *B*, or *C*, he must complete the requirements of that area, sequence by sequence, in the same manner as regular students.

If the transfer student is given credit for previous work in an area of General Studies, he must complete the requirements of the area by taking General Studies courses so that his total university and college experience meets the following standards.

For Area *A*, he must complete 22 hours in science (physics, chemistry, biology, earth science, etc.). A minimum of three specific fields which includes work in both the physical and the biological sciences must be included. A maximum of 6 hours' credit at the third level may be applied toward the area requirement.

For Area *B*, he must complete 22 hours in the social sciences (geography, history, economics, government, sociology, psychology, anthropology,



etc.). At least three specific fields must be included. A maximum of 6 hours at the third level may be applied toward the area requirement.

For Area *C*, he must complete 22 hours in the humanities and fine arts (art, music, literature, philosophy, logic, etc.). At least three distinct fields must be included. A maximum of 6 hours at the third level may be applied toward the area requirement.

The 22-hour requirement is reduced to 16 hours in the area of the student's third-level waiver (*A*, *B*, or *C*).

For Areas *D* and *E*, he must complete courses essentially equivalent to those required of the regular student. If a student has taken 9 quarter hours (or 6 semester hours) of Freshman English (composition and literature) at another university or college, those credits are normally applied to this University's requirement of GSD 101a,b and GSC 151. A grade equivalent to *D* within such a sequence, however, is not acceptable for transfer.

# 4 / Instructional Units

## General Studies Division

S. D. LOVELL, *Dean*

*Man's Physical Environment and Biological Inheritance; Man's Social Inheritance and Social Responsibilities; Man's Insights and Appreciations; Organization and Communication of Ideas; Health and Physical Development*

The General Studies Division administers and coordinates the General Studies Program. It is also responsible for the academic advisement of freshmen and sophomores who are working toward a baccalaureate degree. (See preceding chapter which discusses in detail the General Studies Program.)

## Business Division

KENNETH H. MYERS, *Dean*

*Accounting; Business Administration; Business Education; Economics; Finance; Management Systems; Marketing; Personnel and Industrial Relations; Production*

The Business Division provides educational preparation for young men and women who plan careers in business and in the related professional fields of economics and business education. The following degree programs are offered:

Business Administration—The Bachelor of Science degree with a concentration in business administration is granted by the division. Students supplement the general program in business with a sequence of courses in one of the following specializations: accounting, general; accounting, professional; business administration, general; economics; finance; management systems; marketing; personnel and industrial relations; and production.

Economics—Two somewhat different degree programs are granted by the division, the Bachelor of Science degree with a concentration in economics and the Bachelor of Arts degree with a concentration in economics. In addition, the Education Division offers a degree program in which students may choose to specialize in economics.

Business Education—The Bachelor of Science degree with a concentration in secretarial and office administration is offered by the Business Division. In addition, the Bachelor of Science degree with a concentration in business-teacher education is granted by the Education Division. The first of these degree programs is intended for students who will enter business directly, and the second for those planning to enter the teaching profession.

### *A General Philosophy*

The General Studies Program of the University undergirds each of the degrees offered by the Business Division and assures the student of a broad base in the cultural heritage of this society as well as in the scientific and technological foundations of this dynamic age. Beyond these considerations, the Business Division has the following general objectives:

1. To encourage recognition of the transitory nature of even the best of present theory and practice in each of its fields, and to this end to anticipate and facilitate scientific, technological, and cultural advancement rather than to disparage and resist it.

2. To identify and emphasize that which is fundamental to each of its disciplines, and to this end to stress conceptual and analytical capability rather than the power to recall facts or to repeat routines.

3. To encourage an inquiring mind, a constructive skepticism, and a creative outlook; and to this end to sharpen the ability both to perceive problems and to transform them into opportunities for positive action.

4. To emphasize the importance of communicating facts, concepts, analyses, and proposals clearly and succinctly, whether in oral or written form, and before large groups as well as small, and to strengthen skills pertaining thereto.

5. To advance the concept that an individual's education can be and should be a continuing process; to encourage both formal and informal programs of post-graduate development as technology advances and individual responsibilities grow.

6. Above all, to temper the carefully calculated response with consideration for one's fellowmen and to hold to a high standard of personal integrity and social responsibility both in professional and personal life.

These general objectives impinge both upon the Business Division's curriculum, or choice of subject matter, and its pedagogy, or choice of teaching method. In respect to the latter, the Business Division endeavors to use the methods of teaching which consider the students as active participants in an on-going learning process rather than as passive vessels into which a certain quantity of knowledge is to be poured at daily lectures and measured at quarterly intervals. It follows that the quality of the student's intellectual processes, as well as his knowledge of particular subject matter, are factors of vital concern to the Business Division.

### **Education Division**

W. D. WILEY, *Dean*

*Counselor Education; Early Childhood Education; Educational Administration; Elementary Education; Foundations of Education; Health Education; Instructional Materials; Physical Education; Psychology; Secondary Education; Special Education*

The Education Division, in keeping with the traditions of Southern Illinois University, stands committed to the development of effective professional educators. Teachers are prepared for all levels of learning and in the subject matter areas of the public school program. The Education Division offers programs dedicated to the development of professional educators capable of meeting, with ever broadening horizons, the needs of a variegated and changing community.

For undergraduate students preparing to teach at either the elementary



or the secondary school levels, the preparation for teaching, including student teaching, is taken in the Education Division. A subject matter concentration that is not education is taken in another division. Courses of study for supervisors, administrators, and specialists, as well as basic and advanced courses in the fields of psychology, guidance, and the foundations of education, constitute an important part of the broad offerings of the division.

Students anticipating careers in education may prepare for secondary, elementary, and kindergarten teaching; for school administration and supervision; for health, recreation, and physical education; for counselor education, psychology, and special education; for instructional materials; and for other community services.

Supervised student teaching is conducted in the public schools of the broad and varied geographic area served by Southern Illinois University.

The Education Division offers programs leading to the Bachelor of Science degree and the Bachelor of Arts degree in psychology.

### *Teacher Certification Programs*

All students who wish to undertake programs leading to teacher certification are required to make application to the Education Division. This may be done after completion of 64 hours. Students will be eligible to take education courses after favorable action on their application. Upon satisfactory completion of the teacher education program and other related University requirements the dean of the Education Division will recommend to the State Superintendent of Public Instruction that the student be granted a teaching certificate.

## **Fine Arts Division**

ANDREW J. KOCHMAN, *Dean*

*Art and Design; Mass Communications; Music;*

*Speech and Theater*

The objectives of the Fine Arts Division are to broaden and intensify experiences in the fine arts and communicative arts and related sciences in the area served by the University; to impart to all University students an awareness of the cultural values of the arts; in art, design, music, speech, speech pathology and audiology, radio, television, journalism and film; to provide facilities for the creative and scholarly pursuit of the arts; and to offer specialized courses of study to serve the ends of liberal and professional education. The performing arts are emphasized through exhibitions, concerts, lectures, and theatrical productions.

## **Humanities Division**

GERALD J. T. RUNKLE, *Dean*

*American Studies; Comparative Literature; English Language and Literature; Foreign Languages and Literature; Journalism; Philosophy; Professional Writing*

The Humanities Division provides instruction in the intellectual disciplines of English and other languages, of literature, and of ideas. The Division is concerned with instruction in the reading, writing, and speaking of English and other languages, the development of an understanding and appreciation of literature, and the concomitant recognition of its

civilizing values. The Division guides advanced students in methods of studying and arriving at comparative evaluations regarding the works, men, and movements that make up literary and intellectual history. All students are encouraged to think and to write rationally, imaginatively, and responsibly as they learn to identify persistent human problems and their classic and current solutions.

### Science and Technology Division

LAURENCE R. McANENY, *Dean*

*Biology; Chemistry; Engineering; Mathematics; Physics;  
Science and Technology*

The Science and Technology Division offers courses of study in mathematics, the natural sciences, and engineering.

Candidates for the Bachelor of Arts or the Bachelor of Science degree with concentrations in any of the disciplines in the Science and Technology Division must meet the following requirements:

1. At least 48 hours of credit in one area of concentration with a minimum grade-point average of 3.00.
2. A minimum grade-point average of 3.00 for all courses numbered above 299.
3. At least 9 hours of credit in the area of concentration in courses numbered above 299 must be earned at Southern Illinois University within two years preceding the completion of requirements for the degree.
4. Upon completion of 64 hours of credit, each student in the division must file a tentative curriculum outline with his division adviser.

Candidates for the Bachelor of Science degree in education who select an area of concentration within the Science and Technology Division must have at least 48 hours (or 36, if two 27-hour concentrations are completed in other areas of study) in that area with a minimum grade-point average of 3.00 overall and for all courses numbered above 299.

A secondary concentration within the Science and Technology Division must include at least 27 hours of credit with a minimum grade-point average of 3.00. Specific requirements, if any, are listed in this catalog under the heading Secondary Concentration for the particular discipline.

To qualify for honors in an area of Science and Technology, one must complete at least 48 hours of credit, or the equivalent, in that area including successful completion of 9 hours of the corresponding honors program.

### Social Sciences Division

EARL S. BEARD, *Dean*

*American Studies; Anthropology; Geography; Government;  
History; Public Administration and Planning; Sociology*

The Social Sciences Division offers courses designed to enable the student to achieve an understanding and appreciation of civilization viewed in historical perspective, and to gain, through the various social sciences, an awareness of the society of which he is a part and of his role in it. His studies give him insights and understandings which enable him to live more constructively with others in his family, community, and nation and which provide him with a better understanding of social organizations, technologies, and the nature and variety of human beliefs and attitudes.



## Department of Nursing

LUCILLE McCLELLAND, *Dean*

The Department of Nursing was established by the Board of Trustees at Carbondale in 1953 as an autonomous unit in the University's educational structure. It was formally activated in 1956. The first program was considered supplementary and offered to registered nurses in the spring of 1956. The first class of students in the basic generic program was admitted in the fall of 1956. In the fall of 1963 the two programs were combined. In July, 1963, the Board of Trustees approved moving the nursing program to the East St. Louis Center of the Edwardsville Campus. At present the entire program may be taken at the Edwardsville Campus, or the first four quarters (including the summer quarter of the first year) which are preclinical and primarily liberal arts subjects, may be taken on the Carbondale Campus; the remainder must be taken at the Edwardsville Campus starting in the fall quarter of the sophomore year. Plans are being made to offer the sophomore year concurrently on the Carbondale Campus.

The Department of Nursing has as its controlling ideal the education of students in a broad understanding of their cultural heritage; the appreciation of spiritual, aesthetic, and moral values in personal, civic, and professional living; the cultivation of critical and constructive thinking related to general as well as health needs of all individuals and to local, national, and international health problems. The curriculum (1) is based on a broad foundation of liberal arts, (2) emphasizes the importance of prevention of illness as well as its curative requirements, (3) gives understanding of the physical, mental, emotional, and social aspects of health and illness and their interrelatedness, (4) helps each student develop the ability and desire to give the best possible nursing care to society, and (5) serves as a foundation and stimulus for graduate study.

Applicants to the program may be either registered nurses, graduates of diploma or associate degree programs, or high school graduates who wish to become registered nurses and obtain a baccalaureate degree in nursing.

Applicants must meet all of the requirements for admission to the University. When they become students, they are subject to all of the University rules and regulations.

There are no restrictions regarding age, marital status, race, color or creed to admission of applicants providing they meet all other requirements of admission to the University and later to the Department of Nursing. Students are evaluated on the basis of mental and physical health, personality and character traits, academic achievement, and progress toward professional maturity.

A registered nurse who wishes to enter the program must meet all requirements for admission to the University and in addition:

1. Be a graduate of a state-approved school of nursing.
2. Be a registered nurse currently licensed to practice.
3. Show satisfactory placement on the National League for Nursing Graduate Nurse Examination. These tests are used as guidelines to determine eligibility for proficiency tests in beginning nursing courses.

The steps to take for admission to Southern Illinois University are as follows:



1. Obtain application forms from the University and proceed with all instructions therein.

2. Arrange for a personal interview with a faculty adviser in the Department of Nursing during the first quarter of attendance at the University.

3. Early registration for classes according to the schedule which will be mailed the applicant is advisable.

During the summer quarter of the first year students must arrange to purchase uniforms. The approximate cost is \$40 for two uniforms; other accessories will bring the total cost to approximately \$80.

Students may live at home, in residence halls, or in University-approved off-campus housing.

Several hospitals, public health agencies, day care centers, nursery schools, and other community institutions are used for clinical experience. Students are expected to pay their own travel expenses to and from these facilities. Private transportation is essential.

A limited number of scholarships, traineeships, grants, and loans are available to student nurses from national, state, and local resources.

Inquiries may be addressed to Office of Student Affairs or Dean, Department of Nursing, Southern Illinois University, Edwardsville, Illinois 62025.

### Aerospace Studies

MAJOR MURRAY J. HANCOCK, JR., *Commander*

The objective of the Air Force Reserve Officers Training Corps program is to qualify students for appointment as Second Lieutenants in the United States Air Force. The Air Force ROTC unit at Southern Illinois University, Edwardsville, is a senior division unit established in September 1965. It is administered by commissioned officers of the USAF who have been assigned by Department of the Air Force with approval of the University.

The Air Force ROTC program at Edwardsville is a two-year course of study. To compete for entry into the program an applicant must qualify competitively on a written exam, pass a physical examination, and be selected by an interview board of Air Force Officers. Selected applicants must first successfully complete a six-week field training course conducted at an Air Force base prior to entry into the two-year program. The applicant must have two academic years of undergraduate or graduate study or combination of the two remaining. Upon completion of the two-year program, the Professional Officer Course, and the institutional requirements for a degree, the cadet is commissioned as a Second Lieutenant in the U.S. Air Force. Unless he is granted an educational delay to pursue or continue graduate work, the new officer enters active duty shortly after graduation.

The six Professional Officer Courses (POC) are designed to provide the fundamental training, both personal and professional, which will best equip a cadet to become an effective junior Air Force Officer possessing a high growth potential and, if qualified, to develop and stimulate a growing desire on his part to enter the Air Force Flight Instruction Program. Emphasis is given, both in theory and practice, to outlining the leadership and managerial responsibilities of squadron-level officers, to improving oral and written expression, and to learning techniques of the prob-

lem-solving process. Field trips to Air Force bases supplement classroom instruction by familiarizing the cadet with Air Force operations and organization.

Qualified senior Air Force ROTC cadets interested in becoming Air Force pilots participate in the Flight Instruction Program. Each FIP student receives thirty-six and one-half flying hours at an FAA approved flying school.

The 18 academic hours (six courses of 3 hours each) of the Professional Officer Course are allowable toward a bachelor's degree.

Six non-credit hours of Corps Training (six courses meeting one hour per week each quarter) are taken concurrently with the Professional Officer Course. These courses provide leadership training experiences which will improve a cadet's ability to perform later as a USAF officer.

Air Force ROTC textbooks will be furnished on a loan basis to all the Air Force ROTC students.

Selection of students for application and/or enrollment will be made by the Professor of Aerospace Studies as provided in Public Law 88-647 from qualified applicants as follows:

1. Personal qualifications.
  - a. The applicant must qualify competitively on the Air Force Officer Qualification Test.
  - b. The physical standards prescribed for appointment to the United States Air Force Reserve in AFM 160-1 will apply.
  - c. The applicant must be accepted as a student in Southern Illinois University and be in good academic standing.
  - d. The applicant must have not reached his twenty-fifth birthday at the time of initial enrollment in the POC.
  - e. An applicant must have:
    - (1) been selected and successfully completed six weeks field training; or,
    - (2) completed the General Military Course. This is for transfer students from institutions which offer the Air Force ROTC four-year program; or,
    - (3) had previous training or honorable service. On the basis of previous service in the Air Force, Army, Navy, Marine Corps, or Coast Guard a cadet may request a waiver for the General Military Course.
  - f. At the time of acceptance, the applicant must have two academic years remaining either at the undergraduate or graduate level or a combination of the two. This will not exceed more than two academic years prior to completing all prerequisites for an undergraduate degree from the University.
2. Condition of Service. All POC students will become members of the Obligated Air Force Reserve and will be under contract with the Government. The contract will contain the following provisions:
  - a. The student agrees:
    - (1) unless sooner released for the convenience of the Government to complete the POC.
    - (2) to accept an appointment as Second Lieutenant, United States Air Force Reserve, if and when tendered.
  - b. The Department of the Air Force agrees to pay the student a retention fee at a monthly rate as announced. The current rate is \$50 per month for a maximum period of twenty months.



3. In addition to the monetary emoluments listed above, the POC cadet receives:
  - a. An officer-type uniform. The uniform remains in the possession of the cadet during his two-year enrollment and becomes his property upon the successful completion of the Air Force ROTC program.
  - b. In excess of \$125 for the six-week training course and a travel allowance to and from that place of training.

#### *Air Force ROTC Awards*

Awards are presented to outstanding cadets during each academic year. Details concerning such awards are announced and published at appropriate times.

### **University Extension Services**

RAYMOND H. DEY, *Dean*

H. BRUCE BRUBAKER, *Assistant Dean*

The University Extension Services is an all-university agency with offices on both the Carbondale and Edwardsville Campuses. Its major function is to impart knowledge to persons not in regular attendance at the University. This is done in two ways: (1) The Extension Class Program, and (2) The Educational Conference Program.

Extension classes, which offer college credit and are identical to similar classes offered on the campus, are scheduled in the various communities in the southern half of the state of Illinois or are offered by radio or television for Southern Illinois residents, where there is a need for them. Classes are also scheduled in foreign countries when there are definite advantages to having them offered there.

The Educational Conference Program is conducted on both campuses of the University and occasionally off campus in nearby cities and towns. Assistance is not only given for local conferences but for state and national conferences. Persons attend these conferences from the state of Illinois, from all parts of the country, and in some instances from all over the world.

The University Extension Services, in its programs, uses professional faculty members, distinguished visiting authorities, library facilities, various teaching aids, and many other resources of the University in carrying out its function.

#### *Policies and Procedures of the Extension Class Program*

##### **CLASS MEETINGS**

Three-hour Extension classes meet weekly for a period of 12 weeks, each meeting being 2½ hours in length unless otherwise stated. Four-hour Extension classes meet weekly for a period of 16 weeks, each meeting being 2½ hours in length, or weekly for 12 weeks with 4 extra meetings being arranged by the instructor and the group, with the exception that 4-hour graduate classes meet weekly for 12 weeks.

##### **FIRST CLASS MEETING**

The date of the first meeting of an Extension class is arbitrarily set by the Extension dean. The instructor and the group, at the first meeting of the class, decide upon which day of the week subsequent meetings are to be held if the instructor has other days available.



#### TUITION AND FEES

Tuition is \$6.00 per quarter hour of credit plus a \$1.05 textbook rental fee. The textbook rental fee must be paid by all students, including holders of Normal School and Military scholarships, except graduate students who must purchase, or make other arrangements for, their books. (The instructor has the privilege of requiring the purchase of additional books and materials.)

#### REGISTRATION

Registration for Extension classes will be conducted by the instructor during the first and second meetings of the class. Students are urged to register at the first meeting. Students registering after the second meeting of the class must have unusually good reasons for doing so which must be approved by the dean of University Extension Services. A late registration fee of \$5.00 will also be charged.

All Extension students must have their Social Security numbers with them in order to complete their registration at the first class meeting.

#### AUDITING

Persons not interested in receiving credit may audit courses, if facilities are available, by receiving permission from the instructor. Auditors pay the same fee as those who register for credit.

#### TEXTBOOKS

Undergraduate students will be able to obtain rented textbooks at the first meeting of the class. Graduate students may either purchase books at the first meeting of the class or complete a form for ordering them. In this case, the books ordered will be available at the second meeting of the class.

#### LIBRARY FACILITIES

Each instructor may, if he so desires, take a number of supplemental reading books, perhaps thirty or forty, to his Extension class. These books are readily available to the student, as they are kept in the room where the class is conducted. Students are also issued a Library Permit which enables them to use any of the libraries at any of the centers. There is no charge for these services.

#### EXTENSION CREDIT APPLICABLE TO THE BACHELOR'S AND MASTER'S DEGREES

Extension credit may be applied to meet graduation requirements or towards a master's degree. University policy provides, however, that not more than one-half of the total credit required for graduation, or 96 hours, may be obtained in off-campus courses. Sixteen hours of Extension credit may be applied toward a master's degree.

#### COURSE NUMBERING SYSTEM

Any 400-level course may be used for either undergraduate or graduate credit. The 500-level courses are open to graduate students only. Only students who have graduate standing or more than 96 hours of undergraduate credit, which is at least junior standing, may register in a 400-level course. Other Extension courses are open to students who are high

school graduates or over 21 years of age (students who have been forced to drop school because of low grades are not eligible for Extension work unless permission is obtained from the proper campus academic dean). Those starting to work toward the master's degree must come to the Graduate School Office before the end of their first course and have an adviser assigned to help plan the rest of their graduate program.

#### SCHEDULING EXTENSION CLASSES

Extension courses will be scheduled under the following three conditions: (1) Where it is apparent that there is a need present and adequate enrollments to justify scheduling the class; (2) When it is possible to obtain a faculty member to teach the class; and (3) When adequate laboratory and library facilities are available.

#### *Educational Conference Program*

##### PURPOSE OF THE PROGRAM

Educational conferences are scheduled when off-campus persons are in need of knowledge which may be obtained from our professional faculty members, from outstanding authorities who may be brought to the campus, or which may evolve as a result of panel and other discussion techniques participated in by those mentioned above as well as others.

##### ORIGIN OF CONFERENCE

The idea of a conference may originate from one or more persons who are members of one of our academic departments or divisions, from one or more persons with similar interests off-campus, from a member of the University Extension Services, or by a combination of these as well as other persons.

A call to the University Extension Services will set in motion the process which results in a specific conference.

##### CONFERENCE PLANNING

A conference planning group is usually desirable in order to determine if there is a real need for a conference, to better define this need, and to discuss the best personnel and conference techniques to meet this need.

##### ASSISTANCE PROVIDED BY THE UNIVERSITY EXTENSION SERVICES

In addition to helping determine and assemble a conference planning group, to advise this group of conference techniques which will probably be most successful for this particular conference, and to perform other details incidental to planning, many other activities are often carried on by the University Extension Services. Some of these are as follows:

1. Make arrangements for persons to appear on the conference program, including subject matter specialists as well as representatives from the University Administration.
2. Assemble the conference program and have it printed.
3. Determine a mailing list and send invitations.
4. Arrange for publicity about the conference through a number of media.
5. Reserve auditoriums and other meeting rooms.
6. Arrange for coffee hours, luncheons, and banquets.
7. Requisition microphones, movie and slide projectors, and other paraphernalia of this type.



8. Arrange for registering persons attending the conference.
9. Make any special parking arrangements needed.
10. Make arrangements for lodging for conferees.
11. Arrange tours of campus and other facilities.
12. Arrange social hours for spouses of those attending the conference.
13. Meet trains and airplanes where necessary.
14. Type and distribute copies of speeches presented at the conference.
15. Perform a number of other activities often necessary for a particular conference.

#### COSTS

A conference registration fee is often assessed to cover some of the conference costs. On some occasions other sources of funds are used to pay for bringing outstanding authorities to the conference and to cover other expenses.

### Division of Technical and Adult Education

ERNEST J. SIMON, *Dean*

E. R. CASSTEVENS, *Assistant Dean*

The Division of Technical and Adult Education supervises all associate degree programs and noncredit courses offered by Southern Illinois University. The associate degree programs serve adults and high school graduates interested in obtaining a college-level course of instruction of a shorter duration than the usual four-year college program qualifying them for employment at the semi-professional and technical level in industry and business. The purpose of the noncredit courses is to serve the needs of the community for educational programs that will improve the economic and social standards and provide new interests for business and industry in the community.

The associate degree programs offered by Southern Illinois University are listed at the end of Chapter 5 in this bulletin. Course descriptions for associate degree programs are given at the end of Chapter 8.

#### *Adult Education*

The fundamental purposes of adult education are to help strengthen communication skills; to help adults increase their ability and desire to change in a changing world; to improve human relations; to participate as responsible citizens; to seek personal growth; and to develop creativity in leisure time and to seek ways of spending time productively. Program brochures specifying the required courses are available from the Office of the Division of Technical and Adult Education.

#### *Industrial Management Program*

The Industrial Management Program is designed to give present and future foremen and supervisors some of the skills and information they need for improved job performance. This program leads to the two-year certificate in industrial management. Successful completion of eight courses is required for a certificate in industrial management. They are offered once each week for ten weeks.

#### *In-Plant*

On request from industry, courses from the Industrial Management Pro-



gram may be offered in-plant to accommodate foremen or supervisors who cannot attend the evening program. Special programs may be developed to meet the unique problems of a particular industry, or present courses or programs may be adapted for presentation in-plant. Consultation and advice on the total training needs of personnel in industrial plants are given on request.

#### *Traffic Management Program*

The Traffic Management Program is a course of study, its purpose being to prepare candidates for the examinations leading to certification by the American Society for Traffic and Transportation and furnish a complete working knowledge of Interstate Commerce Law. This is a certificate program.

#### *Development Program for Middle Management*

The Development Program for Middle Management is a program for department heads, superintendents, general foremen, and the heads of small businesses which are production-oriented. These men meet for dinner once a week having an hour and a half discussion with a recognized authority on a given subject before dinner and a different one after dinner. The subjects are grouped into four broad categories and are tied together by a coordinator into an integrated program.

The purpose of the program is to assist companies in the routing development of middle managers in a changing environment. This program is designed to sharpen management skills, especially the decision-making skill; to provide opportunity for the practice of newly-developed techniques for handling quantified data; and to review the fundamentals of management.

#### *Advanced Development Program for Middle Management*

The Advanced Development Program for Middle Management is designed only for those persons who have completed Southern Illinois University's Development Program for Middle Management. It is a fifteen-session program that provides further development in management skills through the case study method.

#### *Executive Development Program*

The purpose of the Executive Development Program is to provide business executives at near top management levels with an educational experience, and a broadened outlook to the job of managing and directing men and resources for the total business activity. The program provides opportunities to review new developments in business management, through the vehicle of business games, case studies, and other techniques to expand their capabilities for decision-making on a broadened basis. Participants in the program are provided with an opportunity to exchange ideas with other executives; to engage in creative and reflecting thinking; and to improve their managerial skills.

#### *Special Courses, Programs, and Conferences*

In order to meet the special needs for adult education additional courses, programs, and conferences are developed for those who have unique situations.

*Policies and Procedures of the Technical and Adult  
Education Program*

ADMISSION

A student must be officially admitted to the University before registering for courses in an associate degree program. The student, to be permitted to attend classes at Southern Illinois University, must have completed registration, which includes admission, advisement, sectioning, and payment of fees.

ADVISEMENT

At the initial counseling interview the candidate for the associate degree must declare his intention and select his field of concentration and so indicate on the form provided (Student Declaration of Concentration). After the student has completed the Student Declaration of Concentration, advisement will be the responsibility of the Division of Technical and Adult Education.

PLACEMENT SERVICES

Upon the completion of 80 quarter hours, the associate degree student may register with University Placement Services. The student is encouraged to register early to take advantage of the opportunities for interviews with the representatives of various companies. There is no fee for this service.

GRADUATION

No later than the beginning of a student's last quarter, he must apply for graduation. At this time his courses and grades are reviewed by the Registrar's Office to determine whether the requirements of the University have been met and by the Division of Technical and Adult Education to determine whether the requirements for the Associate degree have been met.

**Center for the Study of Crime, Delinquency, and Corrections**

CHARLES V. MATTHEWS, *Director*

The Center for the Study of Crime, Delinquency, and Corrections spans both campuses of the University—the Carbondale Campus, emphasizing adult corrections; and the Edwardsville Campus, focusing on the problems of delinquent youth.

The Delinquency Study and Youth Development Project, located on the Edwardsville Campus, is a federal training center under the joint sponsorship of Southern Illinois University and the President's Committee on Juvenile Delinquency and Youth Crime. This Project, funded annually, is made possible by a federal grant of \$115,988 plus a Southern Illinois University matching grant of \$134,035. These grants were awarded under the provisions of Public Law 87-274.

The staff of the project consists of an inter-disciplinary team of social scientists working at problems of youth. In the three years of its existence it has both studied the problems of youth—especially youth from urban slums—and helped train those who work with them. Demonstrative programming for youth, in-service training of professionals and para-profes-

sionals, regional conferences, and action research have been typical project activities.

The project offers course work in the behavioral sciences, and graduate assistantships are available for students working toward a degree in the "helping professions."

### **Labor Institute**

JOHN M. McDERMOTT, *Director*

NORMAN JOHNSEN, *Assistant Director*

The function of the Labor Institute is to promote harmony and cooperation between labor and management by encouraging the training of students and others interested in labor and industrial relations and to provide advice on the technical aspects of labor and industrial relations to labor, to industry, and to the public.

### **Center for Business Services/Small Business Institute**

ARNOLD G. FRANKE, *Assistant Director*

The primary objective of the Center for Business Services/Small Business Institute is to develop executives for small businesses, rather than to create specialists in a single field such as accounting, finance, sales, etc. Management of a smaller business requires more all-around "know-how." While concepts taught are those of modern big business, the applications are directed to small business operations.



# 5 / Areas of Concentration

## *Fields of Study*

Below are the fields of study in which Southern Illinois University grants bachelor's degrees to Edwardsville Campus students. Also appearing in this chapter is information on dentistry, instructional materials, secondary education, and student teaching. A bachelor's degree normally requires four years of study.

American Studies	Journalism <sup>1</sup>
Anthropology	Mass Communications
Art	Mathematics
Biology	Music
Business Administration	Nursing
Business Education	Philosophy
Chemistry	Physical Science
Comparative Literature <sup>1</sup>	Physics
Economics	Professional Writing
Elementary Education	Psychology
Engineering	Public Administration and Planning
English	Sociology
Foreign Languages	Special Education
Geography	Speech
Government	Speech Pathology and Audiology
Health, Recreation, and Physical Education	Theater
History	

Below are the fields of specialization in which Southern Illinois University grants associate degrees to Edwardsville Campus students. An associate degree normally requires two years of study.

Accounting	Industrial Management
Child Care Services	Secretarial Studies

## *Abbreviations Used in This Chapter*

Three-digit numerals are used to identify specific courses. The first numeral of the three indicates the level of that course. A letter following an identification number indicates a *part* of a course (*a* means first part, *b* means second part, etc.). A numeral separated from the identification number by a dash indicates the number of hours required in the course. For example, History 306-9 indicates a third-level course of 9 hours in the Social Sciences Division, and History of Rome 306a,b,c indicates that the course has at least three parts.

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<sup>1</sup> Secondary concentration only.

The five areas of General Studies are referred to as GSA, GSB, GSC, GSD, and GSE. The three-digit numerals following these abbreviations function similarly to those noted above. Numerals 1, 2, or 3 following one of these abbreviations and separated by a dash indicate the level requirement in that area. For example, GSA-3 indicates the third-level requirement in General Studies Area A.

Numerals in parentheses in columns of figures pertain to course hours which satisfy more than one requirement. They are in parentheses to avoid their being added into the total of the column which would be a duplication of hours required. For example, under Biology, GSA 201 satisfies part of the General Studies requirements and contributes 8 hours toward the 84 hours required. It also satisfies one of the requirements for the concentration in biology but does not contribute to the printed total of 94-101 hours.

### American Studies

#### *Bachelor of Arts Degree, HUMANITIES DIVISION*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3 or GSC-3.)	84
<i>Requirements for Concentration in American Studies</i>	68
American Studies 398	4
English 309-8	8
Foreign Language (two or three years in a language) (9) + 9	
GSB 300-9 (6) + 3	
Philosophy 381b,c, 386-4	12
Approved courses in history, social sciences, literature, philosophy, fine arts, and other areas. (At least two courses must be in speech or fine arts.)	32
<i>Electives</i>	40
<i>Total</i>	192

### Anthropology

The concentration in anthropology is designed to familiarize students with the major divisions, viz., archaeology, ethnology, social anthropology, linguistics, and physical anthropology. A student is expected to elect anthropology courses to develop further his knowledge in one of the five divisions.

#### *Bachelor of Arts Degree, SOCIAL SCIENCES DIVISION*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.)	84
<i>Requirements for Concentration in Anthropology</i>	35
GSA 365, GSB 201a, GSD FL (16)	
Anthropology 304, 400, 405, 408, 409, 430	27
Electives to complete 42 hours in anthropology chosen in consultation with the faculty (GSA 365 and GSB 201a contribute 7 hours to the concentration.)	8
<i>Secondary Concentration</i>	27
<i>Electives</i>	46
<i>Total</i>	192

Anthropology courses adapted to the General Studies program may be used as electives. Students demonstrating an interest in linguistics can use English 400 to meet concentration requirements.

Secondary Concentration

A secondary concentration in anthropology consists of 27 hours. GSA 365-3, GSB 201a-3, 351b-3, 336-3, and English 400-4 may be counted as part of the concentration.

Art

Undergraduate offerings in art provide introductory and specialized studio work, an introduction to our historical heritage, and professional preparation for the future teacher. Limited offerings are available for those with an avocational interest.

The Faculty of Art and Design asserts the right to select and withhold examples of the work of each student in each class. Such works may become part of a permanent collection and be used for exhibitions as determined by the faculty.

During the last quarter of the junior year or first quarter of the senior year, any student may petition the art faculty to grant him the privilege of an exhibition of his work. Such an exhibit may be comprised of the work of an individual or may be composed of the works of several seniors. Participation is not required for graduation; permission to participate is extended in recognition of industry and ability.

Bachelor of Arts Degree, FINE ARTS DIVISION

General Studies Requirements (See Chapter 3. Waive GSC-3.) . . . .	84
Requirements for Concentration in Art . . . . .	81
GSD FL . . . . .	(9)
Art 100-15, 202-15, 225-9 . . . . .	39
Art 305-4, 310-4, 358-4, 393-4, art history 6 hours . . . . .	22
12 additional hours from one of the following: ceramics, painting, prints, sculpture, or art history . . . . .	12
Art electives . . . . .	8
Electives or Secondary Concentration . . . . .	27
Total . . . . .	192

STANDARD SECONDARY CERTIFICATE

Requirements for certification include 8 hours in art education, Educational Administration 355-4, Counselor Education 305-4, Secondary Education 315-4, and 352d-12 (32 hours).

Bachelor of Science Degree, EDUCATION DIVISION

For this degree the following courses constitute a concentration in art: 100-15, 202-15, 225-9, 300-4, 305-4, 310-8, 358-8, 365-4 for a total of 67 hours.

Secondary Concentration

One desiring a secondary concentration in art should consult the faculty chairman.



## Biology

Students planning to concentrate in biology should consult with the biology faculty representatives.

### *Bachelor of Arts Degree*, SCIENCE AND TECHNOLOGY DIVISION

<i>General Studies Requirements</i> (See Chapter 3. Waive GSA-3.)	84
<i>Requirements for Concentration in Biology</i>	94-101
GSA 201-8	(8)
GSD FL	(9)
FL 126-3	3
GSD 114a,b-9 and 114d-4	13
Physics 206-15, or GSA 101a-5 and Mathematics 150-8	(5) + 8-10
Chemistry 111-15, and 305-10 or 341-15	(3) + 22-27
Biology 301-11, 302-20, 303-12, 390-1	44
One elective in biology at the 400 level (minimum of 4 hours)	4
<i>Electives Recommended</i> : Three additional quarters of foreign language elected, quantitative analysis, physical chemistry, calculus.	14-7
<b>Total</b>	<b>192</b>

### *Bachelor of Science Degree*, EDUCATION DIVISION

For this degree, the requirements for concentration in biology are as listed above, under Bachelor of Arts degree, except that no foreign language is required.

### *Bachelor of Science Degree*, SCIENCE AND TECHNOLOGY DIVISION

Students planning to enter dental, medical, or veterinary schools or become medical technologists should consult with the appropriate biology faculty representative to work out their individual courses of study.

#### *Medical Sciences*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSA-3.)	84
<i>Requirements for Concentration in Biology (Medical Sciences)</i>	82
GSA 201-8	(8)
GSD 114-9	(9)
Physics 206-15	15
Biology 302a or b or c-5, and electives from 301, 302, 303, or 400 level (only one course from 400 level)	22
Transfer (one year from an approved dental, medical, or veterinary school)	45
<i>Secondary Concentration</i>	27
Chemistry 111-15, 235-5, 305-6, 345-4	(3) + 27
<b>Total</b>	<b>193</b>

Upon successful completion of one year of study in a program leading to a dental, medical, or veterinary degree at an approved school, the student is credited with 45 hours toward the Bachelor of Science degree, of which 16 count toward the 64 hours of senior college credit needed for graduation from Southern Illinois University.

Medical Technology

General Studies Requirements (See Chapter 3. Waive GSA-3.)	84
Requirements for Concentration in Biology (Medical Technology)	84
GSA 101a-5, 201-8	(13)
GSD 114-9	(9)
Biology 301-11, 302-20, 303a-4, 390-1	36
Medical Technology (one year at an approved medical technology school)	48
Secondary Concentration	27
Chemistry 111-15, 235-5, 305-10	(3) + 27
Total	195

Upon successful completion of one year of study and laboratory work at a school of medical technology approved by the Science and Technology Division, the student will usually be credited with 48 hours towards the Bachelor of Science degree (of which 16 will count towards the 64 hours of senior college credit needed for graduation from Southern Illinois University). Coordinated programs have been worked out with Jewish Hospital, St. Louis, and St. Elizabeth's Hospital, Belleville, Illinois.

Schools of medical technology approved by the Council on Medical Education and Hospitals of the American Medical Association require for entrance the completion of three years (135 quarter hours) from an accredited college or university, with credit for 24 hours in biological science and 24 in chemistry. Students successfully completing the year of study and laboratory training at an approved school of medical technology are eligible to take the national registry examination conducted by the Board of Registry of Medical Technology for certification as a registered technologist MT(ASCP).

Secondary Concentration

A secondary concentration in biology consists of 27 hours and includes at least one quarter of 302. Four hours of GSA 201 may be counted toward the 27 hours as may GSA 314 and GSA 328.

A secondary concentration in chemistry consists of 27 hours including the requirements listed under the Bachelor of Arts degree with a concentration in biology and 3 hours of chemistry.

Business Administration

The academic program in business administration is designed to anticipate the needs of students who will graduate in the early 1970's and whose business careers may extend well beyond the year 2000. We assume that, as business practices and technology change, and as individual business responsibilities grow or alter, our former students will need to adapt continuously to the demands and opportunities of the dynamic fourth quarter of the 20th century. This process of continuing adjustment will be accomplished in many ways: on-the-job training, non-degree courses offered within business and by external agencies, formal academic programs such as those leading to the Master of Business Administration degree, and do-it-yourself programs of professional development. As Southern Illinois University's graduates advance in their careers, all of



the foregoing modes of continuing education will be increasingly needed and used.

*Bachelor of Science Degree, BUSINESS DIVISION*

Careful planning will be needed if the student is to meet all of the degree requirements in General Studies, the business division core, and an area of specialization. The Business Division maintains a special advisory staff to assist students in planning their programs.

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.) . . . .	84
<i>Requirements for Concentration in Business Administration</i> . . . . .	80
Accounting 230, 231, 330 . . . . .	12
Business Communications 390 . . . . .	4
Economics 200, 201, 300 . . . . .	12
Finance 320 . . . . .	4
General Business Administration 140, 340, 341, 440, 441 . . . .	20
Management Operating Systems 380, 381 . . . . .	8
Marketing 370, 371 . . . . .	8
Quantitative Methods 210, 211, 310 . . . . .	12
One of the specializations below . . . . .	16 or 28
PROFESSIONAL ACCOUNTING . . . . .	(28)
Accounting 331, (341 in lieu of 330), 351-8, 442, 453, 456 . . . . .	24
General Business Administration 342 . . . . .	4
GENERAL ACCOUNTING . . . . .	(16)
Accounting (341 in lieu of 330), 351-8, 442, 453 . .	16
ECONOMICS . . . . .	(16)
Economics 440, 441, and electives . . . . .	16
FINANCE . . . . .	(16)
Finance 420, 423, 424, 425 . . . . .	16
GENERAL BUSINESS ADMINISTRATION . . . . .	(16)
(To be worked out on an individual basis)	
MARKETING . . . . .	(16)
Marketing 470, 473, and two of 452, 471, 472 . . . .	16
MANAGEMENT SYSTEMS . . . . .	(16)
Accounting 341 . . . . .	4
Management Operating Systems 380 . . . . .	4
Marketing 452 . . . . .	4
Production 460 . . . . .	4
PRODUCTION . . . . .	(16)
Production 460, 461, 462, 463 . . . . .	16
PERSONNEL MANAGEMENT AND INDUSTRIAL RELATIONS . . . .	(16)
Personnel and Industrial Relations 450, 451, 452, 453 . . . . .	16
<i>Electives</i> . . . . .	12 or 0
<i>Total</i> . . . . .	192

*General Studies.* As part of the program of General Studies, business students are asked to take certain foundation subjects of great significance to their later work in the business program. Particularly relevant are the courses in economics and sociology, in psychology and anthropology, in college algebra and statistics, and in oral and written communication. Concurrent with their lower division (freshman and sopho-



more) General Studies work, business students will also take carefully selected basic courses in business offered by the division.

*Core Curriculum.* The mission of the core curriculum in business is threefold. First, it aims at providing students with a comprehensive understanding of industrial dynamics, structure of industry, business organization, and managerial technique. Second, it seeks specifically to develop the student's managerial capabilities in the three critical areas—analysis, communication, and human relations. Third, it aims at re-enforcing both the motivation and the capacity for life-long professional growth and development.

*Specialization and Electives.* The student's choice of a specialization and his use of electives will reflect his preference as to a point of entry into business. We say *point of entry* rather than *career* because well over half of our students are expected to shift fields of specialization within a few years after graduation. That is to say, students whose point of entry is field  $x$  may soon find themselves working in field  $y$ . Nevertheless, if a student aspires to a specialization such as professional accounting, he will be advised to devote both his specialization and his elective course work to subjects relevant to that objective.

Similarly, a student interested in management systems may take the four-course sequence in that area and may, if he chooses, use his elective courses to bolster his strength either in business subjects or in a related field, such as mathematics or the computer sciences. Alternatively, electives may be used to expand cultural or other nonprofessional interests. Students choosing other areas of specialization such as finance, marketing, or personnel and industrial relations may use their electives in like fashion.

Still another use of the time allocated to "specialization" and "electives" is afforded by the general business administration option. A student choosing this avenue may substitute (for a specialization in business) 16 or more hours in an approved sequence in a non-business area, such as economics or sociology or mathematics. Thus a student who desires to acquire depth and breadth in some specific non-business area of study may do so by applying his choices in "General Studies," in "Specialization," and in "Electives" to that end. One purpose of this option is to allow a student who anticipates graduate study in business to receive a "liberal" undergraduate education and yet to qualify for a Master of Business Administration degree (MBA) in one additional year of study instead of the two-year program often required of non-business baccalaureates. A second objective is to provide additional discretion to students who, while desiring to prepare for careers in business, are uncertain as to an exact point of entry. A third group who may choose this option are pre-law students who anticipate engaging in business-related law practice. Finally, there is an increasing demand in business for graduates who have combined a sound program in business with depth in some related area such as those cited.

*In summary.* The program in business is designed to facilitate both entry into business and long-term professional growth. During his business career we expect a former student to find that, because of changing business practices and growing responsibilities, less and less of his

course work in specific business subjects is directly relevant to his needs. As this occurs, he will draw more and more upon the generalized portion of his program at Southern Illinois University, supplemented and extended by his work experience, by his continuing program of self-instruction, and by post-graduate professional-development programs of the types previously indicated.

#### ACCOUNTING

The operation of a business and its financial condition are of interest to its owners, to its employees, to its creditors, to various governmental bodies, and to the public. Accounting is the means by which the transactions of a business are analyzed, recorded, presented, and interpreted to and/or for the various interested groups. In many instances such data is attested by a particular type of professional accountant, the licensed certified public accountant (C.P.A.).

The skills of the accountant are not easily acquired; serious and thorough study is necessary. The breadth and depth of this study depend somewhat upon the post-graduate objectives of an individual student. Differences in student objectives are recognized by two specializations in accounting, either of which will satisfy degree requirements for graduation.

The professional accounting program is recommended for students who wish to meet the educational requirements for taking the C.P.A. examination in Missouri, Illinois, and other states; for governmental career positions in accounting; and the expectations of many public accounting and private business firms. Those who aspire to become a C.P.A. (Certified Public Accountant) should familiarize themselves with the laws and regulations covering the certification of public accountants in the state of their choice. The regulations for the State of Illinois are published by the Committee of Accountancy, University of Illinois, Urbana, Illinois.

The general accounting program is recommended for those students who intend to continue the study of accounting in graduate school, or for those students who desire a more thorough coverage of some other area or areas as an undergraduate.

#### FINANCE

Various career opportunities are available to students who choose to specialize in finance. In broad terms they are corporate finance, investments, commercial banking, and insurance. Within each of these areas there are many sub-categories of professional expertise. Depending upon the student's preference within finance, additional work in related areas such as accounting, economics, or management systems is highly recommended.

An objective of the courses offered in the area of finance is to provide the student with a comprehensive introduction (a) to the functions of corporate financial officers, (b) to the fields of investment policy and investment analysis, (c) to the special characteristics of the major types of financial intermediaries. In addition, they provide knowledge of certain principles of financial analysis and decision making and practice in the application of these principles to specific cases, thereby developing analytical ability and fuller comprehension of the nature of financial problems as encountered in business and industry.



### GENERAL BUSINESS ADMINISTRATION

The general business administration courses help the student to understand the foundations of our market-oriented economy and the role of business enterprise therein; and provide a firm foundation in the area of theory, the external environment of a business or an industry (the scientific and technological, economic and market, legal and political, goal-setting, and attitudinal environments within which business institutes operate), and the decision-making processes involved in the choice of particular business policies and practices. The overall goal is to enhance understanding the internal and external factors affecting the operation of business firms and skill in the management of essential entrepreneurial resources—human, financial, physical, and technical.

This area of specialization provides the student with an opportunity to obtain further depth of study in related subjects offered by the other divisions. Among the topical areas to which this option is applicable are applied science, economics, foreign languages, government, mathematics, psychology, and sociology. Other areas may be approved upon application to the chairman.

In each instance, the student will pursue a sequence of courses amounting to at least 16 quarter hours in the area of his choice. The particular sequence must be approved in advance by the chairman or other appropriate officer of the faculty.

### MARKETING

Marketing, which includes all activities concerned with determining and satisfying desires and needs of individual and institutional consumers, is a major function in all forms of business enterprise. Marketing knowledge and concepts provide the tools for developing and distributing goods and services in today's dynamic economy and tomorrow's as well. Courses are offered in the areas of consumer behavior, advertising, marketing management, distribution, sales administration, and market research.

### MANAGEMENT SYSTEMS—QUANTITATIVE METHODS—PRODUCTION

All three are concerned with (a) the design of information and decision-making systems for business, governmental, and other institutional requirements, (b) the application of appropriate techniques of quantitative analysis to administrative problems, (c) the utilization of EDP (electronic data processing or computer) capability in management information and decision-making systems. This includes the study of techniques often described under the heading of operations research. Three distinct areas of study are recognized within this broad field: management operating systems, quantitative methods, and production and operations management. This specialization is designated management systems.

*Management Systems.* The systems concept of organization within business and government is receiving many benefits from computer applications. Many new career opportunities are arising as a result of the rapid growth of computer usage. Students with an understanding of systems, computers, and quantitative techniques will be equipped to identify and solve certain types of problems in the management of business or government.



*Quantitative Methods.* The courses introduce students to modern mathematical and statistical concepts and methods as applied to business activity. A major objective is to develop skill in the formulation of logical models useful in making business decisions under conditions of both certainty and uncertainty. An additional goal is to develop means of measuring and evaluating the performance of business and other goal-seeking institutions in whole and in part. Linear and dynamic programming, inventory models, simulation, and statistical decision theory are some of the specific methods of analysis studied.

*Production.* The objective is to assist the student who is interested in a career in production or operations management to find a proper point of entry into his chosen field, and to perform competently thereafter. Because of the rapidly changing technological base of the production and operations functions, emphasis is upon tools and concepts of a fairly general character and lasting relevance.

#### PRODUCTION

The production function is responsible for creating the goods and services which are inputs to the marketing function of a firm. Viewed in this manner, a distinct production function is to be found in a variety of business activities. In a major airline, for example, the production function often includes aircraft scheduling, operation, and maintenance and is headed by a vice-president for operations. The head of an analogous function in a banking firm may be titled cashier or comptroller. In manufacturing firms the title of the senior production officer ranges from vice-president for manufacturing to plant manager. In each industry there are conventional lines of advancement running from points of entry into a firm to these positions. Whatever the type of business, the fundamental responsibility of the production function is the same: to insure that the desired goods or services are produced or made available on time, at budgeted cost, in the proper quantities, and within the desired span of quality characteristics.

#### PERSONNEL AND INDUSTRIAL RELATIONS

Personnel administration as a distinct professional field and organizational entity is now well accepted in business, as is industrial relations. In nearly every firm of substantial size are found staff specialists in these areas. There are attractive employment opportunities for both young men and young women in these fields.

The specialization of personnel management and industrial relations is concerned with the responsibilities and activities of both the director of the personnel function and the director of the industrial relations function within commercial, industrial, and governmental institutions. Students are introduced to the specialized routines and procedures of these fields as well as to the many legislative enactments which affect a management's relations with its employees and with organized labor.

The specialization provides opportunities to relate prior work in psychology, sociology, management operating systems, organization behavior, decision making, organization problems, and other areas to administrative problems in the field of personnel management and industrial relations.

Business Education

The program in business education is divided into two areas of specialization, business-teacher education and secretarial and office administration, each of which leads to the Bachelor of Science degree. The same core program is required for each of these areas. Candidates for business-teacher education choose one of two possible options, skill development or basic business preparation.

Bachelor of Science Degree, EDUCATION DIVISION

General Studies Requirements (See Chapter 3. Waive GSB-3.) . . . .	84
Business Education Core . . . . .	40
GSB 103-8, 201-8, GSD 114a,d . . . . .	(25)
Accounting 230 . . . . .	4
Business Communications 390 . . . . .	4
Economics 200, 201 . . . . .	8
General Business Administration 140, 340, 341, 440 . . . . .	16
Management Operating Systems 380 . . . . .	4
Marketing 370 . . . . .	4
Specialization in Business-Teacher Education . . . . .	68
SKILL DEVELOPMENT	
Business Education 304, 324a, 327, 341, 351, 426, 427 . . . . .	27
Business Education 405 and one of 403, 404, 406, 408 . . . . .	7
Counselor Education 305 . . . . .	4
Educational Administration 355 . . . . .	4
Secondary Education 315, 352b . . . . .	16
Education electives . . . . .	8
Electives . . . . .	2
BASIC BUSINESS PREPARATION	
Accounting 231, 351a . . . . .	8
Business Education 351 . . . . .	4
Economics 300 . . . . .	4
General Business Administration 342 <sup>1</sup> . . . . .	4
Marketing 371 <sup>1</sup> . . . . .	4
Business Education and one of 403, 404, 406, or 408 . . . . .	7
Counselor Education 305 . . . . .	4
Educational Administration 355 . . . . .	4
Secondary Education 315, 352b . . . . .	16
Education electives . . . . .	8
Electives . . . . .	5
Total . . . . .	192

Bachelor of Science, BUSINESS DIVISION

General Studies Requirements . . . . .	84
Business Education Core (See above) . . . . .	40
Specialization in Secretarial and Office Administration . . . . .	68
Accounting 231, 330 . . . . .	8
Business Education 341, 426, 427 . . . . .	12

<sup>1</sup> To prepare for Business Mathematics, the student takes Quantitative Methods 210 and 211 instead of General Business Administration 342 and Marketing 371.



Business Education 304, 324a,b, 327 (or electives in Business Division subjects) .....	15
Finance 320 .....	4
General Business Administration 342, Personnel and Industrial Relations 450 .....	8
Electives .....	21
<i>Total</i> .....	192

**Chemistry**

A primary concentration in chemistry must include at least 38 hours in chemistry courses beyond 111c. It is recommended that 341, 345, 461, and 432a or b be included. Training as a professional chemist as specified by the American Chemical Society requires 341, 345, 411, 432, and 461 (in junior year) plus three advanced courses (one may be mathematics or physics) and German. Pre-medical students who enter medical school after the junior year may transfer approved credits back into chemistry to complete the requirements for a concentration.

*Bachelor of Arts Degree, SCIENCE AND TECHNOLOGY DIVISION*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSA-3.)	84
<i>Requirements for Concentration in Chemistry</i> .....	71
GSD FL .....	(9)
Chemistry 111b,c-10, 235-5 .....	(3) + 12
Chemistry 305-6 or 341-9, 345-4 or 6, 460-5 or 461-12 elective-3 .....	18-30
Chemistry electives .....	15-3
Mathematics 150-8, 252-8 .....	16
Physics 211-12, 212-3 .....	(5) + 10
<i>Secondary Concentration</i> (mathematics-16, physics-10) .....	10-26
<i>Electives</i> (chemistry, mathematics, or physics) .....	27-11
<i>Total</i> .....	192

*Bachelor of Science Degree, EDUCATION DIVISION*

A 36-hour concentration for students who elect two secondary concentrations must include, as a minimum, Chemistry 111-15, 235-5, 305-6, 345-4, and 460-5. Those who elect one secondary concentration must have 48 hours in chemistry, one year of physics with lab, and Mathematics 150-8 (Mathematics 252 is prerequisite to Chemistry 461).

*Secondary Concentration*

A secondary concentration in chemistry requires 111-15 and at least 12 hours in courses chosen from 235, 305-6, 341-9, 345-6, 311, 336.

**Comparative Literature**

*Secondary Concentration*

The secondary concentration in comparative literature is 37 hours, prescribed as follows: 300-12; 310a,b,c; second year of foreign language on the college level; and 4 hours of electives from 310c,d, Philosophy 360 or advanced foreign language study.



Dentistry (Preprofessional)

A pre dental program leading to the Bachelor of Science degree in biology upon completion of the first year of study at an approved dental school is offered. Students in this program are qualified to apply to the dental school currently being developed at Southern Illinois University, Edwardsville, as well as to other dental schools. If a student follows the program and does not choose to leave after three years, he can complete a typical biology concentration during his senior year.

<i>Freshman Courses</i> .....	50
GSA 101-8 .....	8
GSC (5 hours 100-level) .....	5
GSD 101-6, 103-3, 114a,c-9 .....	18
GSE 201-3, 1 hour activity course 100-level .....	4
Chemistry 111-15 .....	15
<i>Sophomore Courses</i> .....	50
GSB 101b or 103a-4, 101c or 103b-4 .....	8
GSC 151-3, 3 hours on 300-level .....	6
GSE (1 hour activity course 100-level) .....	1
Biology 302a,d-10 .....	10
Chemistry 305-6, 345a,b-4 .....	10
Physics 206-15 .....	15
<i>Junior Courses</i> .....	48
GSB 201a or 203a-4, or 201c or 203b-4, 6 hours 300-level ....	14
GSC 252-4, 253-4, 3 hours 300-level .....	11
GSE (1 hour activity course 100-level) .....	1
Biology 301a,b-8, 303a-4, 458-5 .....	17
Chemistry 235-5 .....	5
<i>Transfer from Approved Dental School</i> .....	45
<i>Total</i> .....	193

Economics

Courses in economics help students to understand the principles concerning the production and distribution of goods and services. Important and often controversial issues, such as national income, unemployment, inflation, labor unions, monopoly, tariffs, and government spending are studied and analyzed.

The study of economics prepares an individual for a position in private industry, government service, or teaching. Business and governmental agencies employ economists in management training programs, research, and administrative positions. Economics also provides necessary background understanding and evaluation of state and national policy in many fields, among them being taxation, fiscal and monetary policy, anti-trust activities, and welfare legislation. Students choosing economics as a field of concentration pursue a core program followed by more specialized study in such fields as money and banking, industrial relations, finance, international trade. The sequence of courses, including those in related areas such as business, psychology, mathematics, and government is planned in cooperation with an adviser from the economics faculty.

Four distinct programs permit concentration or specialization in economics. The Business Division offers the Bachelor of Science degree with a concentration in business administration and a specialization in economics and a Bachelor of Science degree with a concentration in economics. The Social Sciences Division offers a Bachelor of Arts degree with a concentration in economics. The Education Division offers a Bachelor of Science degree with a concentration in economics.

*Bachelor of Science Degree, BUSINESS DIVISION*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.) . . . .	84
<i>Requirements for Concentration in Economics</i> . . . . .	69
GSB 311-3 . . . . .	(3)
GSD 114a, 114d . . . . .	(9)
Accounting 230, 231, 330 . . . . .	12
Economics 200, 201, 300 . . . . .	12
Economics 440, 441 . . . . .	8
Economics electives . . . . .	17
Quantitative Methods <sup>1</sup> 210, 211, 310 . . . . .	12
Courses in finance, marketing, or management systems . . . . .	8
<i>Secondary Concentration</i> . . . . .	24
Students are asked to choose a secondary concentration in an area related to their professional or career objectives. Areas which have prior approval are government, mathematics, and sociology. Other areas may be approved at the discretion of the faculty chairman.	
<i>Electives</i> . . . . .	15
<i>Total</i> . . . . .	192

*Bachelor of Arts Degree, SOCIAL SCIENCES*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.) . . . .	84
<i>Requirements for Concentration in Economics</i> . . . . .	54
GSB 311-3 . . . . .	3
GSD 114a-5, 114d-4, FL . . . . .	(9) + 9
Economics 200, 201, 300 . . . . .	12
Economics 440, 441, 450, and electives . . . . .	30
<i>Secondary Concentration</i> . . . . .	24
Students are asked to choose a secondary concentration in an area related to their professional or career objectives. Areas which have prior approval are government, mathematics, and sociology. Other areas may be approved at the discretion of the faculty chairman.	
<i>Electives</i> . . . . .	30
<i>Total</i> . . . . .	192

*Bachelor of Science Degree, EDUCATION DIVISION*

For this degree the following courses constitute a 48-hour concentration in economics: GSB 103b, 311, GSD 114d, Economics 200, 201, 300, 440, 441, plus 17 hours of electives in economics to meet the minimum of 48 hours. The electives will be chosen in consultation with an economics faculty adviser.

<sup>1</sup> Requirement in quantitative methods may be met by Mathematics 150-8, 252-8, 480-10, and 483-4; in this case, these courses in mathematics will constitute a secondary concentration.



The following courses constitute a 36-hour concentration in economics: GSB 103b, 311, GSD 114d, Economics 200, 201, 300, 440, 441, plus 5 hours of electives in economics to meet the minimum of 36 hours.

Secondary Concentration

Candidates for the Bachelor of Science degree, Education Division, may choose a secondary concentration in economics. Requirements are GSB 103b, 311, GSD 114d, Economics 200, 201, 300, 440, 441, for a total of 31 hours.

Elementary Education

Following are the requirements for the Bachelor of Science degree with concentration in elementary education and meeting the minimum requirements for a Standard Elementary School Certificate on either the early childhood level or the elementary level.

Bachelor of Science Degree, EDUCATION DIVISION

A student in this course of study must (1) satisfy the general requirements of the University and of the Education Division, (2) complete all hours specified below in the requirements for concentration, and (3) meet all requirements for student teaching and should study the section in this catalog which lists such requirements.

General Studies Requirements (See Chapter 3. Waive GSC-3.)	84
Requirements for Concentration in Elementary Education	70
GSB 201c-4, 203b-4, 300a-3, or 203a-4, 331-3	14
Area of interest <sup>1</sup>	12
Professional Courses (44 hours)	
Counselor Education 305	4
Educational Administration 355	4
Elementary Education 314-4, 337-4, 351-8 to 16, 415-4	20-28
Instructional Materials 417	4
Electives: Recommended—Counselor Education 422-4; Elementary Education 203-3, 413-4, 437-4, 442-4; Psychology 301-4	12-4
Electives	38
Total	192

Early Childhood Education

General Studies Requirements (See Chapter 3. Waive GSC-3.)	84
Requirements for Concentration in Early Childhood Education	70
GSB 201c-4, 203b-4, 300a-3 or 203a-4, 331-3	14
Area of interest <sup>1</sup>	12
Professional Courses (44 hours)	
Counselor Education 305	4
Educational Administration 355	4
Elementary Education 315-4, 316-4, 337-4, 351-8 to 16, 415-4	20-28
Instructional Materials 417	4

<sup>1</sup> A student shall select an area in which he obtains at least 12 hours in addition to the above requirements. These areas are fine arts; health, recreation, and physical education; instructional materials; language arts; mathematics; science; social science.



Recommended electives: Counselor Education 422-4, Elementary Education 203-3, 413-4, 437-4, 442-4, Psychology 301-4, Special Education 428-4 .....		12-0
Electives .....		38
Total .....		192

Engineering

Engineering is the professional art of applying mathematics and science to the optimum utilization of natural resources for the benefit of man. It is a creative activity in that it produces that which has never previously existed; it is a scientific activity in its approach and the knowledge necessary to manipulate nature for man's purposes.

The following curricula are designed to develop engineers capable of breaking new paths as well as improving old ones, to develop flexibility, to emphasize synthesis as well as analysis.

Bachelor of Science Degree, SCIENCE AND TECHNOLOGY DIVISION

General Studies Requirements (See Chapter 3. Waive GSA-3.) ....	84
Requirements for Concentration in Engineering .....	110
Chemistry 111b-5 .....	(3) + 2
Engineering 200-6, 201-2, 260-8, 300-3, 443-6 .....	25
Mathematics 150-8, 225-4, 252-8, 305-8, 351-4 .....	(9) + 23
Physics 211-12, 212-3, 300-5 .....	(5) + 15
Technical Elective .....	4
One of the options below: .....	41
ELECTRONIC ENGINEERING	
Engineering 200-3, 201-1, 310-6, 311-3, 312-1, 405-5, 410-8, 411-2 .....	29
Physics 305-8 .....	8
Technical elective .....	4
ENGINEERING PHYSICS	
Engineering 311-6, 312-2, 405-5, 410-4, 411-1, 420-6, 472-3 .....	27
Mathematics 483-6 .....	6
Physics 305-8 .....	8
ENGINEERING MATHEMATICS	
Mathematics 321-4, 455-9, 472-9, 480-9 .....	31
Technical electives .....	10
Total .....	194

Secondary Concentration

A secondary concentration in engineering should include 200a,b-6, 201a, b-2, 260-8, 311a-3, 312a-1, plus 7 technical elective hours approved by the Faculty of Engineering.

English

Bachelor of Arts Degree, HUMANITIES DIVISION

General Studies Requirements (See Chapter 3. Waive GSC-3.) ..	84
Requirements for Concentration in English .....	53

GSD FL .....	(9)
English 300, 302-12, 309-8, 365, 499-2 .....	30
English electives numbered above 299 (485, 486, 487 do not count.) .....	14
Foreign language courses to complete two years college level work in a language .....	9
Secondary Concentration .....	24-27
Electives .....	31-28
Total .....	192

*Bachelor of Science Degree, EDUCATION DIVISION*

For this degree, the requirements for concentration in English are 48 hours consisting of all the courses required for the Bachelor of Arts degree except a foreign language, totaling 44 hours, and English 485. The grade of C or above is required in all English courses and General Studies Areas C and D.

*Secondary Concentration*

A 24-hour secondary concentration in English consists of 300, 302-12, 309-8.

**Foreign Languages**

*Bachelor of Arts Degree, HUMANITIES DIVISION*

General Studies Requirements (See Chapter 3. Waive GSC-3.) ..	84
Requirements for Concentration in Foreign Languages .....	48
A minimum of 42 hours beyond the 100-level courses, including the seminar in the field of concentration (French, Spanish, or German). .....	42
English and history (one course in each area above 299 related to the concentration) .....	6
Secondary Concentration .....	24-27
Electives .....	36-33
Total .....	192

*Bachelor of Science Degree, EDUCATION DIVISION*

For this degree, the requirements for concentration in Foreign Languages are 38 hours (exclusive of General Studies courses and elementary education concentration courses) in a language, plus one English and one history course numbered above 299.

*Secondary Concentration*

A secondary concentration consists of 24 hours (exclusive of General Studies) in a language.

**Geography**

In the field of geography, the student may work toward either a Bachelor of Science degree or a Bachelor of Arts degree depending upon his objective:

- 1. Bachelor of Science—for preparation to teach geography and earth

science in the elementary or secondary schools, or (with further preparation) in the junior college; or as a part of preparation to teach either social science or physical science in the elementary or secondary school systems.

2. Bachelor of Arts—for a thorough knowledge of geography, in preparation for civil service appointment as a geographer, or for demands of private organizations requiring the services of geographers, meteorologists, cartographers, or planners.

A broad background in other fields is of great importance to a geographer. Thus, it is recommended that geography students hold their hours of geography to the minimum number required and use their elective hours to take work in other areas. Students interested in physical geography should consider work in geology, botany, zoology, plant industries, forestry, and physics. Students interested in economic geography can profit from work in economics, agricultural industries, marketing, and transportation. Students specializing in cultural geography will find courses in sociology, anthropology, community development, history, and government particularly useful. Students interested in the geography of a particular area of the world are encouraged to take courses on the area in other disciplines.

Quantitative methods have become an essential tool used by geographers. Thus, those with a concentration in geography are strongly urged to take work in statistics. GSD 114d provides an introduction, while students interested in more complete preparation may take Mathematics 410a,b, and c.

Students working for a secondary concentration in geography or taking the social studies field concentration in education must take Geography 304, 306, and 308.

*Bachelor of Arts Degree, SOCIAL SCIENCES DIVISION*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.) . . . .	84
<i>Requirements for Concentration in Geography</i> . . . . .	30
GSD FL . . . . .	(9)
GSA 110a,b, 330, GSB 203b . . . . .	(15)
One of the following specializations: . . . . .	30
Cultural geography, economic geography, earth science: 304, 306, 308, 310, and electives.	
Planning: 304, 306, 308, 310a, 404c, 470a, 471, and electives.	
Cartography: 304, 306, 308, 310, 416a,b, 417, and electives.	
<i>Secondary Concentration</i> . . . . .	27
Secondary concentration must be mathematics if the specialization is cartography.	
<i>Electives</i> . . . . .	51
<i>Total</i> . . . . .	192

The Bachelor of Arts degree cartography specialty may be earned by a work-study plan which permits students to work part time at the St. Louis Aeronautical Chart and Information Center. The General Studies Advisement Office or the geography staff has complete information on this plan. GSA 110a,b, 330, and GSB 203b are required in the above specializations; one additional General Studies course in geography may be counted.



*Bachelor of Science Degree, EDUCATION DIVISION*

In addition to the General Studies requirements and the Education Division requirements, a geography specialization must include the following courses: GSA 110a,b, 330, GSB 302b, Geography 304, 306, 308, 310a, and additional courses to complete 45 or 36 hours in geography (depending on whether the student has one or two secondary concentrations).

*Secondary Concentration*

A secondary concentration in geography consists of 27 hours and must include 304, 306, and 308. Fifteen hours may be counted from the following: GSA 110a,b, 330, 331, GSB 203b, and 354.

**Government**

A concentration in government is recommended for persons planning to teach civics or government courses, and for those planning to qualify for the study of law or for the public service.

*Bachelor of Arts Degree, SOCIAL SCIENCES DIVISION*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.) . . . .	84
<i>Requirements for Concentration in Government</i> . . . . .	45
GSD FL . . . . .	(9)
A minimum of 45 hours, including 200 and GSB 203a, and at least 3 hours in four of the six areas of specialization:	
American government and politics: 340 or 345 or equivalent.	
Comparative politics: 350 or 355 or equivalent.	
International relations: 370 or equivalent.	
Political theory: 385 or equivalent.	
Public administration: 320 or equivalent.	
Public law: 340c or equivalent.	
<i>Secondary Concentration</i> . . . . .	27
<i>Electives</i> . . . . .	36
<i>Total</i> . . . . .	192

*Bachelor of Science Degree, EDUCATION DIVISION*

For this degree, the requirements for concentration in government total 45 or 36 hours in government, including 200 and GSB 203a, depending on whether the student has one secondary concentration or two. At least 3 hours (but no more than 20 hours) should be taken in four of the six areas of specialization listed above.

*Secondary Concentration*

A secondary concentration is 27 hours and must include 200 and GSB 203a and at least one course in three of the six areas of specialization.

**Health, Recreation, and Physical Education**

Programs leading to teacher certification are available in physical education and in health education. Such programs are designed to prepare students for teaching at the elementary and/or the secondary level.

Students who desire to gain a primary or secondary concentration in physical education should take a minimum of two activity courses (GSE first-level) each quarter during the freshman and sophomore years. Physical Education 025 should be completed during the freshman year. Students must possess the equivalent of intermediate swimming proficiency.

The following are programs for specialization in teaching physical education at the secondary level.

*Secondary Level*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSA-3.) . . . .	84
<i>Requirements for Concentration in Physical Education</i> . . . . .	48

One of the specializations below:

MEN	
Required activity courses: GSE 104f or 104u, 117f, 118r,s —1 per course . . . . .	5
Elective activity courses: GSE 104 (select 2), 116 (select 1), 117 (select 1), 118 (select 3), electives (select 4)— 1 per course . . . . .	11
Required theory courses: Health Education 334s-4 or Physical Education 376-3, Physical Education 025-0, 303-5, 350-4 or 384-2 and 387-2, 370-4, 382-4 . . . . .	20-21
Elective theory courses . . . . .	12-11
WOMEN	
Required activity courses: GSE 112 or 114o, 114c, 114f or g, 114j,n, 117b,e, 118h,i,s,w—1 per course . . . . .	11
Elective activity courses: GSE 112 or 114o, 116b,d, 117a, c,f, 118a,b,d,e,m,r—1 per course . . . . .	5
Required theory courses: Health Education 334s-4 or Physical Education 376-3, Physical Education 025-0, 303-5, 350-4 or 384-2 and 387-2, 370-4, 382-4 . . . . .	20-21
Elective theory courses . . . . .	12-11
<i>Professional Education Requirements</i> . . . . .	32
<i>Secondary Concentration Requirements</i> . . . . .	28
<i>Total</i> . . . . .	192

*Secondary Concentration*

A secondary concentration in physical education (men) for teaching at the secondary level consists of 30 hours, including 5 hours of GSE required activity courses (see above under primary concentration for men); 11 hours of GSE elective activity courses (see above under primary concentration for men); 11 hours of required theory courses composed of Physical Education 025-0, 341-3, 350-4 or 384-2 and 387-2, and 382-4; and 3 hours of elective theory courses.

A secondary concentration in physical education (women) for teaching at the secondary level consists of 30 hours, including 10 hours of GSE required 1-hour activity courses composed of 112 or 114o, 114c,j, 114f or g or n, 117b,e, and 118h,i,s,w; 4 hours of GSE elective 1-hour activity courses composed of 112 or 114o, 114f or g or n, 116b,d, 117a,c,f, and 118a,b,d,e,m,r; 14-15 hours of required theory courses composed of Health Education 334s or Physical Education 376-3, Physical Education 025-0, 341-3, 350-4 or 384-2 and 387-2, and 382-4; and 1 to 2 hours of GSE or physical education electives.



Elementary Level

A program for specialization in teaching physical education at the elementary level is available. This program leads to the standard special certificate (K through 14), but emphasis is placed upon activities suitable for the elementary school program in physical education. In addition to course work taken at the University, the student is provided with opportunities for observation and practical experience in selected elementary schools, prior to the student teaching experience.

<i>General Studies Requirements</i> (See Chapter 3. Waive GSA-3.) . . . .	84
<i>Requirements for Concentration in Physical Education</i> . . . . .	48
Required activity courses: GSE 102 or 112, 104f or 104g or 114f or 114g, 117a,b, 118i,r,s,w—1 per course . . . . .	9
Required theory courses: Health Education 334s-4, Physical Education 303-5, 305-3, 341-3, 344-3, 383-2, 384-2, 385-2, 387-2, 388-2, 389-4, 390-3 . . . . .	35
Elective GSE or physical education courses . . . . .	4
<i>Professional Education Requirements</i> . . . . .	32
<i>Secondary Concentration Requirements</i> . . . . .	28
<i>Total</i> . . . . .	192

Secondary Concentration

A secondary concentration in physical education for teaching at the elementary level consists of 30 hours, including 9 hours of GSE required activity courses (see above under primary concentration); 3 hours of GSE elective activity courses; 14 hours of required theory courses composed of Health Education 334s-4, Physical Education 341-3, 350-4, and 354-3; and 4 hours composed of any two of the following 2-hour elective theory courses—Physical Education 383, 384, 385, 387, and 388—or 389-4.

A secondary concentration in health education is available for those who wish to receive certification on either the elementary or secondary school level. It consists of 30 hours and includes GSE 201-3; Health Education 205-4, 300-3, 334s-4, 350-4 or 460-4, 355-4, 471-4; and one of the following 4-hour courses—Health Education 313s or Psychology 301, 303, or 432.

History

Students who intend to study for either the Bachelor of Arts or the Bachelor of Science degree with a concentration in history should arrange for an interview with the undergraduate adviser in history at the time of declaration of concentration. The Bachelor of Arts degree permits the student a greater degree of flexibility in the four-year college program, and is recommended for students who plan to do graduate work.

Bachelor of Arts Degree, SOCIAL SCIENCES DIVISION

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.) . . . .	84
<i>Requirements for Concentration in History</i> . . . . .	37
GSB 100-8, 300-9 . . . . .	(17)
History 100-3, 102-4, 452-3 . . . . .	10
History electives at the junior-senior level (Anthropology 304 may be counted) . . . . .	18



Two years of college level foreign language, or its equivalent (first year in GSD or second year intermediate) .....	9
<i>Secondary Concentration</i> .....	27
<i>Electives</i> .....	44
<i>Total</i> .....	192

### *Bachelor of Science Degree, EDUCATION DIVISION*

For this degree, the requirements in history are 48 hours or 36 hours depending on whether the student has one secondary concentration or two. Requirements for the concentrations are GSB 101-8, GSB 300-9, and History 100 or 102; in addition, students in the 48-hour concentration are required to take History 452. The remainder of the courses for the two concentrations listed above are electives taken at the junior-senior level.

#### *Secondary Concentration*

Twenty-seven hours are required for a secondary concentration in history and must include GSB 101-8, GSB 300-9, and either History 100 or 102. Anthropology 304 may be counted in any history concentration.

### **Instructional Materials**

Courses are offered in instructional materials in the utilization and administration of teaching materials. Programs may be designed to prepare either audio-visual coordinators or school librarians.

The Education Division offers a secondary concentration of 28 hours for secondary level specializations. This program provides minimum qualification for either a media specialist or a school librarian.

The required courses for librarians are Instructional Materials 308-4, 403-4, 406-4, and 407-4. The required courses for audio-visual people are Instructional Materials 417-4 and 445-5. Additional courses to fulfill the requirement of 28 hours are planned in conference with the instructional materials adviser.

### **Journalism**

#### *Secondary Concentration*

A secondary concentration in journalism consists of 24 hours, including 103-3, 201-3, 202-3, 340-3, and English 300-4 and 392-3. See also Professional Writing.

### **Mass Communications**

Mass Communications involves the study of television-radio, journalism, and film. At the present time, a student may concentrate in television-radio. A full spectrum of courses is available to the television-radio student, including a series of seminars in the senior year. Also, each student must pass a comprehensive examination in the winter quarter of his senior year.

A student of broadcasting takes courses dealing with history and commercial aspects of broadcasting, production techniques, and reflection or evaluation aspects of the industry.

*Bachelor of Arts Degree, FINE ARTS DIVISION*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSC-3) . . . .	84
<i>Requirements for Concentration in Mass Communications</i> . . . . .	74
Television-Radio 100-4, 200-4, 201-8, 202-4, 300-5, 301-5, 400-4, 401-4, 402-4 or 403-4 . . . . .	42
Speech 224-4, 301-4 . . . . .	8
Television-Radio Electives (three of the following 4-hour courses: 302, 303, 404, 405, 406, 407) . . . . .	12
Fine Arts Division Electives (courses from each of the follow- ing areas: art, music, speech) . . . . .	12
<i>Secondary Concentration</i> . . . . .	24
<i>Electives</i> . . . . .	10
<i>Total</i> . . . . .	192

Students seeking a Bachelor of Arts degree with a concentration in broadcasting must take the program outlined above. This degree requires a foreign language and is intended for those students who expect to enter the writing, production, or talent areas of broadcasting, or who expect to continue on to graduate study in broadcasting.

*Bachelor of Science Degree, FINE ARTS DIVISION*

The Bachelor of Science degree does not require a foreign language and is intended for those students who wish to enter the production, technical, or commercial aspects of broadcasting, and who expect to enter the industry on a full-time employment basis upon graduation.

**Mathematics**

Students interested in a concentration in mathematics may earn either the Bachelor of Arts or the Bachelor of Science degree, depending upon their objectives. Prospective teachers may be certified to teach with either degree provided certification requirements are satisfied. Anyone considering a concentration in mathematics is urged to consult with an adviser in the mathematics faculty.

*Bachelor of Arts Degree, SCIENCE AND TECHNOLOGY DIVISION*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSA-3.) . . .	84
<i>Requirements for Concentration in Mathematics</i> . . . . .	53
GSD FL (French, German, or Russian recommended) . . . . (9)	
Chemistry 111a or b-5 (can satisfy GSA 101c-3) . . . . (3) + 2	
Mathematics core courses—150-8, 252-8, 321-4, 351-4 . . . .	24
Mathematics 420-6 or 421-6 . . . . .	6
Mathematics 452-9 or 483-9 . . . . .	9
Mathematics electives (recommended: 305a, 415, 425, 430, 433, 455, 460, 475, or alternates above) . . . . .	9
Physics 211a-4 and 211b or c-4 . . . . . (5) + 3	
<i>Secondary Concentration or Approved Supporting Courses</i> . . . . .	27
<i>Electives</i> . . . . .	28
<i>Total</i> . . . . .	192

*Bachelor of Science Degree, SCIENCE AND TECHNOLOGY DIVISION*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSA-3.) . . .	84
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<i>Requirements for Concentration in Mathematics</i> .....	53
Mathematics Core Courses 150-8, 252-8, 321-4, 351-4 ..	(24)
Specialization in one of the following:	
APPLIED MATHEMATICS	
Mathematics 225-4, 305a-4 .....	8
Mathematics 455-9, or 475-9, or 483-9 .....	9
Mathematics Electives (Recommended: 305b, 421, 472, or alternates above) .....	7
COMPUTER SCIENCE	
Mathematics 225-4, 305a-4, 472-9 .....	17
Mathematics 455a-3 or 475a-3 .....	3
Mathematics electives (recommended 305b, 421, 455b,c, 475b,c, 483a or alternate above) .....	4
Chemistry 111a or b-5 (can satisfy GSA 101c-3) ....	(3) + 2
Physics 211a-4 and 211b or c-4 .....	(5) + 3
<i>Secondary Concentration or Approved Supporting Courses</i> .....	27
<i>Electives</i> .....	28
<i>Total</i> .....	192

*Bachelor of Science Degree, EDUCATION DIVISION*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSA-3.) ...	84
<i>Requirements for Concentration in Mathematics</i> .....	53
Chemistry 111a or b-5 (can satisfy GSA 101c-3) ....	(3) + 2
Mathematics core courses: 150-8, 252-8, 321-4, 351-4 ....	24
Mathematics 311-4 and 420-6 .....	10
Mathematics 415-4, 430-4, 460-4 (any two) .....	8
Mathematics electives (recommended: 305a, 425, 433, 452, 483 or alternates above) .....	6
Physics 211a-4 and 211b or c-4 .....	(5) + 3
<i>Secondary Concentration</i> .....	27
<i>Professional Education Requirements</i> (See Secondary Education P. 58) .....	32
<i>Total</i> .....	196

*Secondary Concentration*

A secondary concentration in mathematics consists of 27 hours and includes courses through 150b and at least 12 hours selected from courses above 200. Mathematics 420 is recommended for prospective teachers. (The requirement for teacher certification in mathematics is 30 hours.)

**Music**

During the academic year, distinguished musicians join the faculty and students for workshops, seminars, and performances. The list of musicians who have appeared includes Sigurd Rascher, saxophone; Leonard Smith, cornet; Sidney Foster, piano; the Riter-Allen Duo, violin-piano; Reginald Kell, clarinet; John Barrows and Philip Farkas, French horn; Vincent Abato, clarinet-saxophone; Paul Price, percussion; Sol Schoenbach, bassoon; composers Gunther Schuller and Halsey Stevens; Daniel Pinkham, composer-choral conductor; The St. Louis Symphony; Roger Wagner, Director of the Roger Wagner Chorale; Paul Steinitz, Director of the London Bach Chorale.



General Requirements

The requirements for entrance and graduation as set forth in this catalog are in accordance with the published regulations of the National Association of Schools of Music, of which this Faculty of Music is a member. The Bachelor of Music degree with specialization in performance, or in music education, and the Bachelor of Arts degree with concentration in music are offered.

Each full-time student must receive credit in a major ensemble during the quarter registered. Part-time students should consult with the adviser as to the minimum ensemble requirement. Substitute credit is permitted to selected students.

Each candidate for the Bachelor of Music degree with a concentration in music education must pass a piano proficiency examination. Unless he is enrolled in private applied piano, he must enroll in class piano during the first six quarters (summer quarter possibly excepted). If he fails to pass the proficiency examination by the end of the sixth quarter in class piano, he must continue the course without credit until the examination is passed. Voice class is required of all music education concentrations for three quarters (excepting those enrolled for an equivalent amount of private applied voice).

All students in private applied music must attend convocation and studio recitals in their performance areas. In addition, a minimum number of recitals, concerts, or other musical events stipulated by the Faculty of Music must be attended. Deficiency in recital attendance for any academic year results in a grade of incomplete in applied music.

Students with a concentration in performance must present the minimum of a shared recital during their junior year and a full recital during their senior year. Music education students must present the minimum of a half-recital during their senior year.

Students desiring concentrations in music should consult with a music adviser before their first appointment with General Studies Advisement and must audition before a music faculty committee for acceptance into a music concentration.

Bachelor of Arts Degree, FINE ARTS DIVISION

These courses are for students who wish to specialize in music as part of their general cultural education. They may also be taken as background for advanced studies in music.

General Studies Requirements (See Chapter 3. Waive GSC-3.) . . .	84
Requirements for Concentration in Music . . . . .	57
GSC 156, GSD FL . . . . .	(14)
Music 105-12, 205-9, 357-9, and electives . . . . .	39
Music private applied (2 hours per quarter) . . . . .	12
Music major ensemble . . . . .	6
Secondary Concentration . . . . .	24
Electives . . . . .	27
Total . . . . .	192

Bachelor of Music Degree, FINE ARTS DIVISION  
Music Performance

General Studies Requirements (See Chapter 3. Waive GSC-3.) . . .	84
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<i>Requirements for Concentration in Music</i> .....	111-123 <sup>1</sup>
Foreign Language .....	(9) + 12 <sup>1</sup>
Music 105-12, 205-9, 309a, 312a, 318a, 326a, 442a .....	36
Music 357-9 .....	9
Music, private applied (major instrument) .....	48
Music, major ensemble (1 hour per quarter) .....	12
Music, class piano, or secondary instrument/voice .....	6
<i>Total</i> .....	195-207 <sup>1</sup>

### *Music Education*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSC-3.) ...	84
<i>Requirements for Concentration in Music</i> .....	79-94
Music 105-12, 205-9, 309a-3, 318a,b-6, 326a-3 .....	33
Music 357-9 .....	9
Music, private applied (major instrument) .....	24
Music, major ensemble (1 hour per quarter) .....	12
Piano proficiency or class .....	0-6 <sup>2</sup>
Voice proficiency or class .....	0-3 <sup>2</sup>
Music: class strings, woodwinds, brass—2 hours in each area .....	0-6 <sup>2</sup>

One year of French or German is recommended for the student with a choral emphasis in music education.

<i>Professional Education Requirements</i> .....	32
GSB 331-3 .....	3
Educational Administration 355 .....	4
Music 301-9 .....	9
Counselor Education 305 .....	4
Elementary Education 351e and Secondary Education 352d .....	12
<i>Total</i> .....	195-210

Before a student is approved for student teaching, he must satisfy the course of study and proficiency prerequisites as established by the Faculty of Music.

### *Secondary Concentration*

A secondary concentration in music includes 105-12, 2 hours of credit per quarter for three quarters in performance concentration, 6 hours in a major ensemble, GSC 156, Music 357c (357a or b will substitute). Total: 32 hours.

### **Nursing**

Learning experiences in nursing are approached from the problem solving point of view. Comprehensive health plans and care emerge from applications of knowledge and skill gained from the natural, biological, and social sciences and communications courses. The student develops proficiency in the nurse's role as a teacher, working with patients, families,

<sup>1</sup> Students with a specialization in voice should include two years of foreign language (generally one year each of French and German). The student should consult with his music adviser as to the sequence to be followed.

<sup>2</sup> Study on a secondary instrument or/and voice is possible if requirements for class instruction are met by proficiency.



health teams, and other individuals and groups interested in nursing. The student is introduced to the health team concept, first as a member, later as a leader in the nurse team, and then as a participant in the inter-professional health planning for care and rehabilitation of individuals in society.

*Bachelor of Science Degree, DEPARTMENT OF NURSING*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.)	84
Substitute Chemistry 110-4 for GSA 101c-3.	
<i>Requirements for Concentration in Nursing</i> .....	109-112
Biology 310-2, 311-5 .....	7
Chemistry 110-4, 240-4 .....	(4) + 4
Nursing 210-4, 300-4, 301a-8, 301b-8, 325-8, 355-4, 363-22, 370-4, 375-8, 381-3, 382-8, 385-1 to 4 .....	82-85
Philosophy 302-4 .....	4
Psychology 301-4, 465-4 .....	8
Sociology 340-4 .....	4
<i>Total</i> .....	193-196

All students who have been accepted in the Department of Nursing must have advisement from the nurse faculty members and must make arrangements with the Department of Nursing three quarters in advance of the time they wish to take each clinical course in nursing.

**Philosophy**

Students seeking a Bachelor of Arts degree with a concentration in philosophy enroll in the program below.

*Bachelor of Arts Degree, HUMANITIES DIVISION*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSC-3.) ..	84
<i>Requirements for Concentration in Philosophy</i> .....	51
Foreign Languages (equivalent of two years) .....	(9) + 9
Philosophy 385a,c-8, 385b or d or e-4, 490-4 or 495-4, GSA 363a-3, GSC 375a-3 .....	22
Philosophy electives. GSA 363b-3 and GSC 375b-3 may be included .....	20
<i>Secondary Concentration</i> .....	24-27
<i>Electives</i> .....	33-30
<i>Total</i> .....	192

*Secondary Concentration*

A secondary concentration consists of 24 hours in philosophy courses. Toward this 24, 6 hours from GSA 363a-3 and GSC 375a-3 may be counted.

**Physical Science**

The Faculty of Physics in cooperation with the secondary education faculty has developed a broad teaching field program in physical science. This program has been developed in order to encourage those people who will become good precollege level teachers to teach physical science,



chemistry, earth science, and physics. The program is designed for students who have shown verbal rather than mathematical ability, and it is hoped that by emphasizing the physical phenomena rather than the mathematical formalities that the student will obtain an appreciation for the important role played by the physical sciences in the development of our Western culture.

*Bachelor of Science Degree, EDUCATION DIVISION*

<i>General Studies Requirements.</i> (See Chapter 3. Waive GSA-3.) ...	84
<i>Requirements for Concentration in Physical Science</i> .....	67
GSA 110 .....	(8)
GSA 101a-5, 356-3, 363a-3 .....	11
Chemistry 111-15, 235-5 .....	20
Physics 206-15 .....	15
Science and Technology 402-4, 403-6, 475-3 .....	13
Mathematics 150-8 .....	8
<i>Professional Education Courses</i> (Teachers Certification Program; see pages 67-68. ....	32
<i>Electives</i> .....	10
<i>Total</i> .....	193

**Physics**

The Faculty of Physics provides two degree programs for students wishing to study physics. The B.S. degree program is recommended for those students planning to work in industry immediately upon graduating. The program is somewhat more rigid than the B.A. program in that it contains fewer electives, though approximately the same number of required hours. The B.A. degree program is very similar to the B.S. except that a year of language is required for this degree, and there is somewhat more freedom in the student's choice of physics courses. The majority of physics students take many more than the minimum of 48 hours in physics, thereby satisfying the physics requirements for either degree. If they also meet the foreign language requirement, the choice of degree then becomes merely a matter of personal preference.

*Bachelor of Arts Degree, SCIENCE AND TECHNOLOGY DIVISION*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSA-3.) ...	84
<i>Requirements for Concentration in Physics</i> .....	74
Foreign Languages (equivalent of one year) .....	(9)
Chemistry 111a,b .....	10
Mathematics 150-8, 252-8 .....	16
Physics 211-12, 212-3, 300a-4, 300b-1, 301-8, 305-8 .....	36
Physics electives numbered 299 or above, including 4 hours of laboratory, to complete 48 hours .....	12
<i>Secondary Concentration</i> .....	11-27
<i>Electives</i> .....	23-7
<i>Total</i> .....	192

*Bachelor of Science Degree, SCIENCE AND TECHNOLOGY DIVISION*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSA-3.) ...	84
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<i>Requirements for Concentration in Physics</i> .....	85
Chemistry 111a,b .....	10
Mathematics 150-8, 252-8, 305-8 .....	24
Physics 211-12, 212-3, 300a-4, 300b-1, 301-8, 305-8, 415a,b-8, plus 3 additional hours of upper level labora- tory work and Engineering 200a-3, 201a-1 .....	51
<i>Secondary Concentration</i> .....	3-23
<i>Electives</i> .....	20-0
<i>Total</i> .....	192

*Secondary Concentration*

A secondary concentration in physics includes Physics 211-12, 212-3, 300a-4, 300b-1, and electives numbered 200 or above to total 27 hours.

The above is the minimum required for graduation. Most students will take more than the required number of hours and still graduate in four years. It is important that the student contact the Faculty of Physics concerning his program at the earliest possible date, even if he has not officially declared his concentration.

**Professional Writing**

*Bachelor of Arts Degree, HUMANITIES DIVISION*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSC-3.) ....	84
<i>Requirements for Concentration in Professional Writing</i> .....	85
English 300-4, 390-3, 392-3, 492-4, and 7 approved hours ...	21
GSC 375-6, Philosophy 342-4, 360-4, 484-4 .....	8
Foreign Language (Intermediate) .....	9
Journalism 101-3, 102-3, 103-3, 201-3, 202-3, 391-3 .....	18
Approved electives in economics, English, government, history, journalism, sociology, and speech .....	29
<i>Secondary Concentration</i> .....	0
<i>Electives</i> .....	23
<i>Total</i> .....	192

**Psychology**

Undergraduate courses in psychology introduce the student to the methods and findings of the scientific study of human behavior. He is given an opportunity to learn what research has shown about how we perceive, learn, and think; how individuals differ from one another; how the personality develops from infancy to maturity; and how interpersonal factors affect human relations in the home, on the job, and in the community.

*Bachelor of Arts Degree, EDUCATION DIVISION*

For this degree, a concentration requires a minimum of 44 hours in psychology. The primary aim is to provide a broad general education rather than specialized professional training in psychology; a maximum of three courses in any one specialized area of psychology may be included in the 44-hour concentration. Students should consult with the designated psychology adviser in planning their courses of study and especially in selecting electives.



<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.)	84
<i>Requirements for Concentration in Psychology</i>	40
GSB 201c (counts toward minimum of 44 hours in psychology)	(4)
GSD FL	(9)
Psychology 211a,b, 311, 312 or 313, and 409 (must be taken in order listed)	20
Psychology 301, 303, 305, 307, 320 (any two)	8
Two 400-level psychology courses (Adviser must approve courses before student enrolls therein.)	8
Psychology elective	4
<i>Secondary Concentration</i>	27
<i>Electives</i> (If graduate study is planned, student should include Psychology 314 in his program.)	41
<i>Total</i>	192

### *Bachelor of Science Degree, EDUCATION DIVISION*

For this degree, a concentration in psychology requires a minimum of 48 hours in psychology. This course of study is designed for the student who intends to teach, pursue graduate studies in counselor education, school psychology, or in psychology with an educational orientation. Student teaching is required for this degree. A strong second teaching field should be planned in consultation with the secondary education adviser.

<i>General Studies Requirements</i> (See Chapter 3. Waive GSB-3.)	84
<i>Requirements for Concentration in Psychology</i>	48
GSB 201c (counts toward minimum of 48 hours in psychology)	4
Psychology 211a,b, 311, 312 or 313, 409 (in sequence)	20
Psychology 301, 303, 305, 307, 320 (any three)	12
Psychology 407, 421, 431, 440, 461, 465 (any three)	12
<i>Professional Courses</i>	32
Counselor Education 305	4
Educational Administration 355	4
Secondary Education 315	4
Secondary Education 352d	12-16
Education electives to complete 32 hours	8-4
<i>Secondary Concentration</i> (should be planned as a strong second teaching field)	27
<i>Electives</i>	1
<i>Total</i>	192

### *Secondary Concentration*

A secondary concentration in psychology consists of a minimum of 27 hours. Students intending to pursue an occupation related to psychology (e.g., counseling, personnel work, or teaching psychology) include in their program GSB 201c, Psychology 211a,b, and 311 plus psychology electives to meet minimum hour requirements. Students with a general interest in psychology but not planning related academic or vocational pursuits should include in their program GSB 201c and Psychology 211a plus psychology electives to meet minimum requirements.

Students who have completed GSD 114d or Sociology 308 should not include Psychology 211b in their program.



Public Administration and Planning

Public Administration and Planning is an interdisciplinary concentration which focuses around the problems of public administration in today's society and emphasizes the basic skills and general educational background needed in preparation for a career in public administration and urban and/or regional planning. Numerous opportunities for graduate training exist in all these fields for which this course of study offers adequate preparation. This concentration offers an excellent medium within the liberal arts tradition to get an organized view and understanding of some of the major problems confronting contemporary society.

The combination of hours selected depends on the interest and to some degree, the previous training of the student. In some cases selected courses in disciplines other than those suggested may be substituted for the hours recommended. Students should consult with the designated adviser in planning their courses of study.

Bachelor of Arts Degree, SOCIAL SCIENCES DIVISION

General Studies Requirements (See Chapter 3. Waive GSB-3.) . . . .	84
Requirements for Concentration in Public Administration and Planning . . . . .	73
At least 17 hours in government or at least 18 hours in geography are required. If geography (government) is chosen as the area for the minimum course hour requirement, at least 38 hours will be required in government (geography). 470 may be taken for either government or geography credit but not both . . .	
55 or 56	
Geography 304-4, 306-4, 310-6, 472-4, and/or 470-14 . . .	18 or 32
Government 360-4, 361-3, 465-3, 473-3, GSB 318-6, and/or Government 470-14 . . . . .	19 or 33
Economics 330-4, 431-3 . . . . .	7
Electives . . . . .	35
Total . . . . .	192

Secondary Education

It is assumed a candidate for the Bachelor of Science degree has made a commitment to the scholarly study of education and to teaching as a career. Secondary education programs include courses in professional education, the teaching fields, and general education. Students should apply to the Education Division for acceptance to a teacher education program no later than the sixth quarter.

A student must pass an examination on the national and state constitution's principles as required by Illinois law or complete either GSB 300a or GSB 203a.

No general requirement in foreign language applies to the Bachelor of Science degree in the Education Division.

Bachelor of Science Degree, EDUCATION DIVISION

General Studies Requirements (See Chapter 3.) . . . . .	84
GSB 201c-4, 203a-4 or 300a-3, or 331-3 . . . . . (10-11)	
Professional Courses . . . . .	32

A. Educational Foundations .....	4-8
Educational Administration 355-4. Elective: 431-4	
B. Psychological Background .....	4-8
Counselor Education 305-4. Electives: 422-4, Psychology 303-4.	
C. Curriculum and Instruction .....	4-8
Secondary Education 315-4. (Prerequisites: Counselor Education 305-4, Educational Administration 355-4. Electives: Instructional Materials 417-4, Secondary Education 407-4, 440-4, 487-4, 488-4.	
D. Student Teaching .....	12-16
Secondary Education 352d-8 to 16. (Prerequisite: 315-4.) Elective: 352e-4 to 8 second area of concentration.	
Teaching Fields (Areas of Concentration) Certain General Studies courses may be applied .....	75-90
Electives .....	1-0
Total .....	192-207

Teaching Fields

The first teaching field shall be at least 48 hours, with a second teaching field of sufficient hours to meet the minimum preparation for teaching in the various fields and subjects (the first teaching field and the second teaching field being in different areas), or the student may carry a 36-hour teaching field with two approved second teaching fields. It is the policy of the Education Division that the courses and prerequisites within the first teaching field area be approved by the adviser in the teaching field. Additional elective hours in the first teaching field and the second teaching field are encouraged, with the following subject fields:

A student in the Education Division who is preparing to teach in junior high or high school may select first teaching fields from the following:

- |                    |                    |
|--------------------|--------------------|
| Biological Science | Mathematics        |
| Chemistry          | Physical Education |
| English            | Physics            |
| Foreign Languages  | Psychology         |
| Geography          | Sociology          |
| Government         | Speech Education   |
| History            |                    |

The second teaching fields shall be at least 27 hours unless specified and may be selected from any of the following:

- |                            |                                   |
|----------------------------|-----------------------------------|
| Biology                    | Instructional Materials           |
| Business Teacher Education | (library science or audio-visual) |
| (one area only)            | Mathematics                       |
| Chemistry                  | Physical Education                |
| English                    | Physics                           |
| Foreign Languages          | Psychology                        |
| Geography                  | Sociology                         |
| Government                 | Speech                            |
| Health Education           | Theater                           |

Broad teaching fields with the specified number of hours may be selected from the following:

Art Education	67
Business Teacher Education	73-77
General Science and Mathematics (junior high school)	84 <sup>1</sup>
Language Arts (junior high school)	75 <sup>2</sup>
Music Education	85-90
Physical Education and Health	78
Physical Science Education	67
Social Studies (junior high school)	75 <sup>3</sup>
Social Studies (senior high school)	90 <sup>4</sup>

Sociology

Bachelor of Arts Degree, SOCIAL SCIENCES DIVISION

General Studies Requirements (See Chapter 3. Waive GSB-3.)	84
Requirements for Concentration in Sociology	53
GSD FL	(9)
Anthropology, psychology (one course in each)	8
Sociology 301, 308 (or GSD 114d or Mathematics 410a), 312, 321, 405, 451	23
Sociology electives to complete 45 hours	22
A background course in physical anthropology is also recommended.	
Secondary Concentration	27
Electives	28
Total	192

Social Welfare

General Studies Requirements (See Chapter 3. Waive GSB-3.)	84
Requirements for Concentration in Sociology	62
GSD FL	(9)
Anthropology, economics, psychology (one course in each)	12
Government (two courses in the area of American national, state, and local government)	8
Sociology 301, 302, 308 (or GSD 114d or Mathematics 410a), 321, 340, 375, 481, 482	31
Sociology electives	11
Secondary Concentration	27
Electives	19
Total	192

Bachelor of Science Degree, EDUCATION DIVISION

For this degree, the requirements for concentration in sociology include 301, 302, 321, 333, 340, 374, and sociology electives to complete 48 or 36

<sup>1</sup> 57 hours in general science: Chemistry 111-15, 341-4; GSA 201-8, 356-3; Physics 211-15, plus 6 hours related in each earth science and health science from General Studies; and 27 hours in mathematics: GSD 114-9, Mathematics 150-8, 300-4, 320-3, plus one other mathematics course above 299.

<sup>2</sup> GSD 101a,b, 103; GSC 151, 252, 253 254; English 302b,c, 309a,b, 335, 420b, 300, 390, 400, 403, 405b; Speech 224; Theater 410.

<sup>3</sup> 27 hours in history, 24 in government or geography, and 12 hours in each of two of the following: anthropology, economics, geography or government, sociology.

<sup>4</sup> One concentration of 37 hours and two 27-hour concentrations from the areas of economics, geography, government, history, and sociology.



hours depending on whether the student has one or two secondary concentrations. One (but not two) secondary concentration should be in another social science.

### *Secondary Concentration*

A secondary concentration of 24 hours may include GSB 359-6.

### **Special Education**

The Education Division offers undergraduate work leading to the Bachelor of Science in Education degree in special education. The student should consult with a faculty adviser upon declaration of a concentration in special education. Completion of the degree requirements qualifies one for certification as a teacher of the mentally handicapped, or for approval as a teacher of the emotionally disturbed or of the gifted.

#### *Bachelor of Science in Education Degree, EDUCATION DIVISION*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSC-3.) . . . .	84
<i>Requirements for Concentration in Special Education</i> . . . . .	32
One of the following specializations:	
EDUCABLE MENTALLY HANDICAPPED	
Special Education 410b-4, 413b-4, 414-4, 420-4, 428-4, 481b-4 . . . . .	24
Elementary Education 351e (8 hours of teaching of educable mentally handicapped children) . . . . .	8
EMOTIONALLY DISTURBED	
Special Education 410a, 413a, 414, 420a, 428, 481a . . . . .	24
Elementary Education 351e (8 hours of student teaching of emotionally disturbed children) . . . . .	8
GIFTED	
Special Education 410c, 413c, 414, 420c, 481c . . . . .	24
Elementary Education 351e (8 hours of student teaching of gifted children) . . . . .	8
<i>Professional Courses</i> . . . . .	39
GSB 331 . . . . .	3
Counselor Education 305-4, 412-4, 422-4 . . . . .	12
Educational Administration 355 . . . . .	4
Elementary Education 314-4, 337-4, 351d-8 . . . . .	16
Instructional Materials 417 . . . . .	4
<i>Electives</i> . . . . .	37
<i>Total</i> . . . . .	192

These programs fulfill all the requirements for an elementary teaching certificate in Illinois plus a certificate to teach educable mentally handicapped children, emotionally disturbed children, or gifted children.

### *Secondary Concentration*

A secondary concentration in special education consists of at least 27 hours which must include Special Education 414; any one combination as follows—410a and 420a, 410b and 420b, or 410c and 420c; and other courses as approved by the undergraduate adviser in special education.

Speech

All students with either a primary or a secondary concentration in speech or theater must participate in one or more of the performance activities: debate, forensics, theater production, oral reading, television-radio.

The degree and extent of the participation are determined through consultation with the student's adviser. Upon declaration of a concentration in speech the student should consult with a faculty adviser to plan his program.

Students with primary concentrations in speech and theater in their senior year present to an examining committee of speech and theater faculty a special senior project consisting of an oral presentation that exemplifies effective speaking and reveals the student's grasp of speech subject matter on a topic that embraces a relatively broad area of speech. Early in the senior year the student with the consent of his adviser determines the area and extent of the topic selected. The committee certifies the project as acceptable only if it meets minimal standards of effective and meaningful communication.

*Bachelor of Arts or Bachelor of Science Degree, FINE ARTS DIVISION*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSC-3.) . . . .	84
<i>Requirements for Concentration in Speech</i> . . . . .	48
GSC 157, GSD 103, FL . . . . .	(17)
Speech 202, 205, 224, 301 . . . . .	14
Speech Pathology and Audiology 200 or Speech 104 . . . . .	4
Electives in at least three of the following areas: television-radio, speech, speech pathology and audiology, and theater . . . . .	30
<i>Secondary Concentration</i> . . . . .	24
<i>Electives</i> . . . . .	36
<i>Total</i> . . . . .	192

Students seeking certification for teaching with the Bachelor of Arts degree must take the program outlined above, including Speech 406, Theater 100, 200, 300, and 400-6 to 8 hours each, and meet the other minimum standards for certification listed under Secondary Education in this chapter. The requirements for the Bachelor of Science degree are the same except that the foreign language is not required.

*Bachelor of Science Degree, EDUCATION DIVISION*

Students seeking the Bachelor of Science degree with a concentration in speech education must take the program outlined above, including Speech 406, Theater 100, 200, 300, and 400-6 to 8 hours each, and meet the other minimum standards for certification listed under Secondary Education in this chapter.

*Secondary Concentration*

A 30-hour secondary concentration in speech must be planned in consultation with the chairman of the Speech and Theater faculty. Students electing speech as a second teaching subject must include Speech 406 in their course work.



### Speech Pathology and Audiology

*Bachelor of Arts or Bachelor of Science Degree, FINE ARTS DIVISION*

<i>General Studies Requirements</i> (See Chapter 3. Waive GSC-3.) . . . .	84
<i>Requirements for Concentration in Speech Pathology and Audiology</i>	91
GSB 201c, 331 . . . . .	(7)
GSD 103, FL <sup>1</sup> . . . . .	(12)
Counselor Education 305, 422 . . . . .	8
Elementary Education 314, 337, 351d-8 . . . . .	16
English 391 (or proficiency) . . . . .	3
Psychology 301, 305 . . . . .	8
Special Education 414 . . . . .	4
Speech 104 . . . . .	4
Speech Pathology and Audiology 200, 203, 212, 318, 319, 405-8, 406, 412, 414, 415, 419 . . . . .	48
<i>Electives</i> . . . . .	17
<i>Total</i> . . . . .	192

### Student Teaching

Supervised student teaching is conducted in cooperating public schools near the Edwardsville Campus. A minimum of 8 hours is permitted for experienced teachers holding a provisional certificate in the summer quarter only. Twelve to 16 hours in full-day student teaching are required for graduation.

Application for student teaching should be completed at least two quarters prior to enrollment in the program. The necessary forms are available at the Office of Student Teaching.

The maximum academic load is 16 hours during the quarter of student teaching; the student is responsible for adjusting his class schedule and outside work load so that maximum attention can be given to his field experience.

### Prerequisites

The student teacher should meet the following requirements prior to enrollment in student teaching:

1. A pre-student teaching September experience of two weeks observation at the end of the sophomore or junior year is required of all teacher education students. Fall quarter student teachers may fulfill this requirement by beginning student teaching when the cooperating school begins its school year. Applications for a September experience, available in the Office of Student Teaching, must be submitted during the preceding spring quarter.

2. At least 144 hours with a 3.2 average.

3. Satisfactory completion of GSD 103 or an equivalent public speaking course.

4. Approval of an adviser in the major teaching field and the adviser in professional education is necessary prior to student teaching.

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<sup>1</sup> A foreign language is not required for the Bachelor of Science degree.



- 5. The state of Illinois requires that all students doing student teaching take a physical examination. Forms for this examination can be obtained from University Health Service and should be returned to the same office at least two months prior to student teaching.
- 6. The professional education requirements of this institution, including areas of concentration and education courses, must be met by students seeking certification but not a degree.
- 7. One quarter of residence at the Edwardsville Campus and completion of the minimum hours in each of the areas specified below.

SECONDARY

- a. At least 32 hours in first area of concentration or 48 hours in broad teaching fields.
- b. At least 16 hours including Counselor Education 305, Educational Administration 355, Secondary Education 315, and one elective in professional education courses prior to enrollment in student teaching.

ELEMENTARY

- a. At least 24 hours including Counselor Education 305, Educational Administration 355, Elementary Education 314, 337, 415, Instructional Materials 417.
- b. Students doing their student teaching in grades one through three are encouraged to enroll in the fall quarter.

KINDERGARTEN-PRIMARY

- a. All elementary requirements including 8 hours of elementary student teaching.
- b. Three terms of Music 010e or pass proficiency.
- c. Elementary Education 316.
- d. Additional 8 hours of student teaching at the kindergarten level.

SPECIAL

- a. Elementary requirements.
- b. Additional courses: Special Education 410, 413.
- c. Eight hours of student teaching in elementary education.

Theater

*Bachelor of Arts or Bachelor of Science Degree*, FINE ARTS DIVISION

<i>General Studies Requirements</i> (See Chapter 3. Waive GSC-3.)	84
<i>Requirements for Concentration in Theater</i>	89
GSC 354-9	9
GSD 103-3, FL <sup>1</sup>	(12)
Speech 104-4, 224-4	8
Theater 100, 200, 300, 400 (a program arranged with the Director of Theater, prior to advisement, with studios in acting/directing, design/technical theater, costuming/makeup, management/publicity, dance/stage movement)	72
<i>Electives</i>	19
<i>Total</i>	192

<sup>1</sup> A foreign language is not required for the Bachelor of Science degree.

*Secondary Concentration*

A 36-hour secondary concentration in theater must be planned in consultation, prior to advisement, with the Director of Theater.

**ASSOCIATE DEGREES**

**Child Care Services**

The Associate in Arts degree with a specialization in Child Care Services is designed to help the student develop skills in working with children under seven years of age. All Child Care Services courses combine theory with its practical application through field experience.

This program is intended both for those who wish to acquire the skills needed to enter the field of nursery education and day care, and for those already holding positions in this field but who wish also to make use of the opportunity to improve performance of their current job or to prepare for advancement.

Students planning to specialize in Child Care Services should consult with the Division of Technical and Adult Education.

*Associate in Arts Degree, DIVISION OF TECHNICAL AND ADULT EDUCATION*

<i>General Studies Requirements</i> .....	47
<i>Child Care Services Courses</i> .....	41
<i>Electives</i> .....	8
<i>Total</i> .....	96

**Accounting**

The Associate in Business degree with a specialization in accounting offers a practical and an up-to-date background for a student who wishes to prepare for a position as bookkeeper, payroll clerk, junior accountant, or assistant to a senior accountant or to an auditor. It also offers a base upon which to build a more sophisticated business education in preparation for senior positions.

*Associate in Business Degree, DIVISION OF TECHNICAL AND ADULT EDUCATION*

<i>General Studies Requirements</i> .....	30
<i>General Business</i> .....	32
<i>Accounting</i> .....	20
<i>Option A or B</i> .....	16
Option A: Quantitative Analysis and Systems .....	16
Option B: General Accounting .....	16
<i>Total</i> .....	98

**Industrial Management**

The Associate in Business degree with a specialization in industrial management is designed for adults who have had some experience in work

situations. It prepares its participants for positions such as unit supervisor, assistant superintendent, section head, and branch manager of small organizations. It also builds a base upon which to form a more sophisticated business education in preparation for senior positions.

*Associate in Business Degree*, DIVISION OF TECHNICAL AND ADULT EDUCATION

<i>General Studies Requirements</i> .....	30
<i>General Business</i> .....	48
<i>Option A or B</i> .....	20
Option A: Production .....	20
Option B: Personnel .....	20
<i>Total</i> .....	<u>98</u>

**Secretarial Studies**

The Associate in Business degree with a specialization in secretarial studies is planned for students who wish to prepare for positions as professional secretaries in business, industrial, and governmental offices. It includes a combination of general education and skill-building courses which are necessary to provide a high degree of occupational competence.

*Associate in Business Degree*, DIVISION OF TECHNICAL AND ADULT EDUCATION

<i>General Studies Requirements</i> .....	25
<i>Business Education Core</i> .....	24
<i>Business Education</i> .....	48
<i>Total</i> .....	<u>97</u>





# 6 / Degrees

SOUTHERN ILLINOIS UNIVERSITY at Edwardsville grants the following undergraduate degrees:

Bachelor of Arts  
Bachelor of Science  
Bachelor of Music

Bachelor of Music Education  
Associate in Arts  
Associate in Business

## Graduation

Every candidate for a degree must file written application with the Registrar no later than the first week of his last quarter in attendance before the desired graduation date. Therefore, a person desiring to graduate in the June Commencement should make application for graduation during the first week of the spring quarter. The application forms are available in the Registrar's Office.

At the time of application the student must pay his graduation fee and order his cap and gown through the University Bookstore and register with University Placement Services. A student must have a 3.00 grade-point average before his application for a degree may be accepted.

In addition to the satisfying of all necessary academic requirements each candidate for a degree must make certain that he has no outstanding financial obligation with the University. Otherwise, his graduation clearance will be held up.

Students must attend Commencement exercises to receive their diplomas, unless in advance they obtain permission to be graduated *in absentia*.

## Bachelor's Degrees

Every bachelor's degree candidate is expected to meet the University's general requirements and to follow the recommendations of his academic unit.

Each candidate for the degree must complete a minimum of 192 hours of credit in approved courses. At least 64 must be in third-level (i.e., 300- or 400-level) college courses. Each student must have a *C* average, and grades not lower than *C* in subjects aggregating at least three-fourths of the work. A *C* average is required in the area of concentration. These averages are required for credit made at this University as well as for the total record. To receive a bachelor's degree from Southern Illinois University a student must present either a total of three years' work (144 hours) earned at Southern Illinois University or 48 senior college hours earned at the University, 16 of which may be earned in extension.

A student who receives his first bachelor's degree from Southern Illinois University and who desires a second bachelor's degree must complete a minimum of 45 hours in addition to those required for the first degree and must fulfill the requirements for the second degree. Of these 45 hours,

a minimum of 15 must be taken in residence at the University, and a maximum of 15 may be acquired in extension and/or correspondence courses. At least 30 hours must be in senior college courses. If a student received his first bachelor's degree from another university, a minimum of 48 hours are required to fulfill the residence requirement for the second bachelor's degree, two-thirds of which must be in senior college courses.

The State of Illinois requires that American patriotism and the principles of representative government, as enunciated in the American Declaration of Independence, the Constitution of the United States of America, and the Constitution of the State of Illinois, and the proper use and display of the American flag shall be taught in all public schools and other educational institutions which are maintained in whole or in part by public funds, and that no student shall receive a certificate of graduation without passing a satisfactory examination upon such subjects. Government 231, 300, History 330, and GSB 203a and 300a offer such instruction.

Students preparing to teach must satisfy the certification requirements of the state in which they plan to teach. Certification information may be obtained from the Registrar's Office. Most students who plan to teach in the public schools register in the Education Division.

### **Associate Degrees**

Each candidate for an associate degree must complete a minimum of 96 hours of credit in approved courses. Each student must maintain a C average. The degree-granting unit for the associate degree is the Division of Technical and Adult Education.

The Associate in Business degree is designed to give the student the skills he needs to perform a specific job or type of job. It offers specializations in accounting, industrial management, and secretarial studies. Courses for each of these specializations are available both during the day or evening. Each specialization may be completed in two years by the full-time student or in four years by the part-time evening student. This program is intended for high school graduates who wish to prepare for a first time full-time job and for adults with some working experience who desire to qualify themselves for advancement in a chosen field or for transfer to a different specialization.

Enrollment is limited to those whose purpose is to acquire the skills necessary for an initial job in the chosen field. This program should not be confused with the first two years of any of the four-year programs offered by other academic units of the University.

The only program in the Associate in Arts degree offered at this time is child care services.

The associate degree programs are listed in detail at the end of Chapters 5 and 8, following the information on bachelor's degree programs.

### **Preprofessional Programs**

Preprofessional students may, subject to certain conditions, obtain a bachelor's degree after three years' work at Southern Illinois University and one or more years' work in a professional school. During their three years of residence at Southern Illinois University they need



to have completed all requirements other than elective hours for the bachelor's degree which they are seeking.

In some cases the completion of concentration requirements is possible by their taking certain courses at the professional school, but this is permitted only upon the prior approval of the appropriate division dean. Also, there needs to be completion of at least one year of professional work with acceptable grades in a Class A medical school, a Class A dental school, a Class A veterinary school, or an approved medical technology or law school. In all cases, all University graduation requirements must be met. It is advisable for a student interested in this program to make his decision to seek a bachelor's degree before entering the professional school so that any questions may be clarified at an early date. Preprofessional training is offered in the areas of medical technology, medicine, dentistry, and veterinary science.

Students working toward the Bachelor of Science degree in agriculture may attend the Edwardsville Campus their freshman year and transfer to the Carbondale Campus for the completion of the degree. In preparing for one of the agriculture professions, the student should follow closely the appropriate course of study as suggested in the Carbondale Campus Undergraduate Catalog.

Students working toward a Bachelor of Science degree in home economics may attend the Edwardsville Campus their freshman and sophomore years and transfer to the Carbondale Campus for the completion of the degree. In preparing for this degree, the student should follow closely the appropriate course of study in the Carbondale Campus Undergraduate Catalog.

### **Advanced Degrees**

For information concerning master's degrees or the specialist's certificate, refer to the Graduate School Catalog or direct inquiries to the Assistant Dean, Graduate School, Southern Illinois University, Edwardsville, Illinois 62025.



## 7 / Student and Area Services

SOUTHERN ILLINOIS UNIVERSITY at Edwardsville recognizes the importance of providing students every opportunity to benefit in the fullest manner from their college experiences. A primary goal is to assist students in their participating in the activities of the region served—including international areas. At the same time the University hopes to assist residents of the community, region, and state to understand better the purposes of the University and the contributions of young men and women.

### **Student Services**

The University is concerned with an integrated approach to student needs and problems in intellectual, social, spiritual, and physical areas. Students may learn about and be referred to specialized services throughout the University by publications describing the services and by the personnel in units which are concerned with students.

Those functions of Student and Area Services relating directly to students include the student services administered by the Dean of Students (e.g., student housing, counseling, testing, and student activities), the University Placement Services, the University Health Service, the Student Work and Financial Assistance Program, the International Services Division, the University News Services, the University Broadcasting Services, the University Alumni Services, and the Regional and Urban Development Studies and Services.

#### *Office of the Dean of Students*

The Dean of Students on the campus coordinates the student services offered by the units within the Student Affairs Division. The deans and their staffs work closely with other University offices, with students, and with faculty in planning and implementing an integrated program of activities and services. The Office of the Dean of Students provides information about the University and its services, and lends assistance to students who request it.

#### *Counseling and Testing*

The Counseling and Testing Center is staffed with professional counselors who are qualified to discuss freely any problem or plan—academic, personal, or vocational—that may concern the student. Counseling is designed to aid the student in arriving at a realistic solution to his problem by providing a permissive setting in which he may freely verbalize his thoughts and feelings and, in turn, gain insights for greater understanding. The counselor may use tests as an aid in helping the student evaluate his strengths and limitations. These may include measures of interest, aptitude, personality, and achievement.



Most of the students who seek help from the Counseling and Testing Center refer themselves. However, referrals are received from the faculty and from agencies throughout the University. Students may make appointments by telephone. Services are free.

The American College Testing Program is administered on the Edwardsville Campus. In addition to the extensive individual testing conducted in conjunction with counseling, the Counseling and Testing Center administers testing programs for selection, placement, and research purposes.

An on-going program of research is carried out by the staff of the Counseling and Testing Center in student attitudes, aptitude, achievement, and background; the college environment; and other areas related to the total educational process. Staff members serve as consultants to other faculty members in educational and institutional research.

### *Student Housing*

Because of the relationship between the student's living environment and his progress towards attainment of his educational goals, Southern Illinois University seeks continually to influence both the availability and quality of off-campus housing.

#### BASIC STUDENT HOUSING POLICY

Because of concern for and interest in the housing of students, the Board of Trustees of Southern Illinois University established, in 1963, basic policy on student housing. At its meeting in April, 1965, the Board of Trustees amended its 1963 policy and passed a resolution which established the current basic policy on student housing as follows.

Single undergraduate students not residing with their parents or guardians will be permitted to reside only in those accommodations which have been and which continue to be classified by the Administration as Accepted Living Centers. Any single undergraduate student who resides in accommodations not designated as an Accepted Living Center shall be subject to disciplinary action. The Administration vigorously encourages that all accommodations used by graduate students and married undergraduates meet the same minimal standards.

The qualifications necessary for a living unit to be classified as an Accepted Living Center encompass due consideration for safety, sanitation, health and recreation, supervision, and the creation of an environment conducive to good study conditions. In addition, the living unit must be limited to students of Southern Illinois University and available to all students of the University regardless of race, color, religion, or national origin.

The Administration reviews annually the Housing Policies and Standards and makes appropriate recommendations to the Board of Trustees for upgrading living conditions for students.

#### UNIVERSITY HOUSING

The Edwardsville Campus is designed for commuters, and approximately 85-90 percent of the students reside at home while attending the University. At the present time, construction of 248 housing units on campus is underway. Information concerning application and qualifications to live in university housing may be obtained from the Housing Office, Southern Illinois University, Edwardsville, Illinois 62025.

#### OFF-CAMPUS HOUSING

Owners of off-campus housing facilities use the University's contract form for student rental housing. Each student contract has to be signed by the owner or his legal representative, by the student renter, and by an appropriate staff member of the Office of the Dean of Students.

Staff members of the Office of the Coordinator of University Housing are available to advise students who seek off-campus accommodations. Experience has indicated that attempting to obtain off-campus facilities by mail is generally unsatisfactory. Therefore, prospective students are urged to visit the campus and personally seek desirable living accommodations.

Detailed information concerning housing may be found in "Student Housing Policies and Standards," which may be obtained at the Office of the Dean of Students.

#### *Student Activities*

The staff members of the Student Activities Office are available to all campus groups and individuals in planning, conducting, and evaluating activities and programs.

Besides honorary organizations which stimulate and recognize academic achievements, other groups and organizations exist to meet the educational, religious, social, recreational, political, and other special interests of the student.

Through the use of the Student Activities funds, certain all-campus groups are able to initiate and plan a wide variety of programs for the entire campus community.

Through the establishment and recognition of such organizations and programs at Southern Illinois University, Edwardsville, students are able to become involved with the academic community. Participation in any group or organization is open to all students.

#### *Student Guidebook*

Specific information and current policies concerning housing, motor vehicle regulation, student activities, student code, and general matters are found in the *Student Guidebook*, which is distributed to new students upon admission to the University. All students should be cognizant of University requirements and regulations and may obtain copies of the *Student Guidebook* from Central Publications or from the Office of the Dean of Students.

#### *Office of Student Work and Financial Assistance*

Southern Illinois University, Edwardsville, has an excellent program whereby a student may combine student work with financial assistance to defray a large part of his educational expenses. Student job diversity extends from unskilled entry jobs to those jobs requiring college training. Employment opportunities for students exist in every unit of the University.

The Student Work Program provides part-time employment and work experience which relates, if possible, to the student's academic programs. The kind of training and length of the program are determined by the employing unit in cooperation with the Office of Student Work and Financial Assistance.



Undergraduates employed on campus are paid from \$1.30 to \$2.00 per hour, based upon off-campus experience and the number of years of satisfactory service to the University. Graduate students receive \$1.50 to \$3.00 per hour.

Undergraduates must be enrolled in at least 12 hours to qualify for part-time student work on campus during any quarter except the summer quarter, when students may work and be enrolled in a reduced number of class hours.

In addition to student work, scholarships, grants, loans, and other aids are available to assist academically capable, financially needy students. As a part of the award program, the Board of Trustees has established tuition awards known as Southern Illinois University Scholarship and Activity Awards. To apply for awards, entering freshmen must have ranked in the upper half of their graduating class and have achieved a minimum comprehensive high school average of *C*; enrolled students must have a minimum average of *C* for all college work. For scholarships available to upperclassmen, a minimum average of *C* is required for all college work. For some scholarships, higher averages are required both for eligibility and maintenance.

The limitations of such forms of assistance make it inadvisable for an undergraduate to expect to meet all University expenses from such sources. The University may assist in making up the difference between college costs and the student's resources through scholarships, awards, and loans.

Students desiring to apply for financial assistance must be officially admitted to the University and should request an application for financial assistance from the Student Work and Financial Assistance Office. In general, students should apply for assistance between January 1 and March 15 prior to the September when assistance is needed.

### *Health Service*

Health Service provides medical services at all three major instructional centers of the University. Its purpose is to render service to the students, faculty, and staff within the limits imposed by the size and professional status of the staff, by legal obligations, and by the available facilities.

A physical examination, preferably performed by the family physician, is required of all students before attending classes on a full-time basis. A simplified form is furnished the student for this purpose; it should be mailed or brought to the Health Service on completion. From this record, decisions may be made relative to special considerations for physical disabilities, need for individualized physical education courses, and treatment of illnesses while the student is enrolled.

Detailed information about the services provided and the voluntary health insurance program available to students at special rates may be obtained through a brochure available at Health Service.

### *Placement Services*

The University Placement Services are provided for the benefit of students, graduates, and others who have been attending the University, and who desire to find employment. It also serves employers by helping them locate personnel. Services are free to candidates seeking positions, as well as to employers.

Each student is requested to register with Placement Services dur-



ing the fall quarter of his senior year. Credentials are sent to prospective employers at the request of either the candidate or the employer.

As a means of helping students and graduates obtain permanent employment, a library of employer information is maintained. Company representatives visit the campuses throughout the year, and interviews are scheduled for students who have registered with Placement Services.

### *International Services Division*

The Office of International Services Division attends to the special needs of the student from abroad. Staff members with special qualifications have primary responsibility for assisting the student in matters of adjustment to the University and with matters of immigration, passport problems, contacts with sponsors (foundations, agencies, governments), and financial and personal problems. A special effort is made to integrate the students from abroad into the University and area life and, reciprocally, to help them become a living resource for American students to expand their horizons and interests.

### *Bursar*

The Bursar's Office accepts payment of tuition, fees, and room charges. It also distributes checks for student employment. Limited check cashing services are provided to students. Students are encouraged to establish checking accounts in local banks of the area to obtain the full services of a regular checking account.

### *Identification Cards and Certificates of Registration*

Each student receives an identification card which bears his photograph and serves to identify him while he is enrolled at Southern Illinois University, Edwardsville.

A certificate of registration, issued each quarter, certifies payment of the student activity fee. The identification card is used with the certificate of registration for the current quarter to identify students who have paid the student activity fee and are eligible to use University facilities.

The identification card and the certificate of registration are legal documents. A student who loans, borrows, or alters these cards is subject to disciplinary action; in addition, such action may be considered a criminal offense as well as an infraction of University regulations. It is important to obtain a new certificate of registration each quarter and *to carry both the identification card and the current certificate of registration at all times*. These cards are also used to borrow books from the University Libraries and for other situations on the campus where positive student identification is required.

### **Residence Regulations**

Regulations defining the residence of students for purposes of registration in Southern Illinois University, Edwardsville, are as follows:

1. Evidence showing the residence of every applicant for admission to the University must be submitted to the Registrar at the time of application for admission, and resident or nonresident fees shall be assessed on the basis of evidence appearing in the Registrar's records.

2. In all cases where the records indicate that the student's home is outside the state of Illinois, the nonresident fee shall be assessed. A stu-

dent who takes exception to the ruling may file a claim for a refund, but this must be submitted to the Registrar within 10 days of the opening date of the quarter for which the charge was made.

3. In the case of a student who is a minor, the residence of the parent, or if the student has no parent, the guardian of this person, shall govern unless there is proven to have been complete emancipation of the minor from his parents or guardian and he has established residence in the state of Illinois.

4. Any student, adult or minor, whose parents have established a bona fide residence in the state of Illinois will be regarded as a resident for registration purposes; except that an adult student who has established a residence on his own account outside of the state must conform to the terms set forth in regulation 6 to be classified as a resident.

5. A wife is classified as a resident for registration purposes if her husband is a bona fide resident of the state of Illinois preceding and at the time of her registration.

6. An adult student, whose parents are deceased or whose parents reside outside the state, to be considered a resident of Illinois for purposes of registration must be a bona fide resident of the state for three months preceding the beginning of any quarter for which he registers at the University and must present evidence that he is self-sustaining and not under parental control.

7. An adult alien who holds valid immigration papers and is in the United States under an immigrant-type visa may qualify as a resident of the state for purposes of registration in the University if he has lived within the state for at least a period of twelve months next preceding the beginning of any quarter for which he registers at the University, subject to the provisions of rules 4 and 6.

8. Several factors will be considered in the determination of each individual case. Among the factors to be considered will be (a) location of draft board registration, (b) voting address, if any, (c) the degree of self-support of the student, (d) location of summer or vacation employment.

9. All cases of appeal shall first be referred to the Legal Counsel of the University. An appeal from the Legal Counsel shall be in accordance with University statutes.

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**Note:** In the above regulations an adult student is considered to be a male at least 21 years of age or a female at least 18 years of age.



# 8 / Course Descriptions

HERE ARE LISTED all of the courses offered by the Edwardsville Campus for credit toward a bachelor's, master's, doctor's, or associate degree. Courses are listed numerically within each subject-matter area. Areas are listed below in the order of their appearance on the following pages.

## Subject-Matter Areas

General Studies Area A	Geography
General Studies Area B	Government
General Studies Area C	Health Education
General Studies Area D	History
General Studies Area E	Honors Hours
Accounting	Humanities
Aerospace Studies	Instructional Materials
American Studies	Journalism
Anthropology	Management Operating Systems
Art	Marketing
Biology	Mathematics
Business Communications	Music
Business Education	Nursing
Chemistry	Personnel and Industrial Relations
Comparative Literature	Philosophy
Counselor Education	Physical Education
Economics	Physics
Educational Administration	Production
Elementary Education	Psychology
Engineering	Quantitative Methods
English	Rehabilitation
Experiment in Higher Education	Science and Technology
Finance	Secondary Education
Foreign Languages	Social Welfare
General Foreign Language	Sociology
French	Special Education
German	Speech
Italian	Speech Pathology and Audiology
Russian	Television-Radio
Spanish	Theater
Romance Philology	Child Care Services <sup>1</sup>
General Business Administration	

## Explanation of Entries

The first entry for each course is a three-digit numeral which, together with the subject area, serves to identify the course. The first digit indicates that the course is for freshmen, sophomores, juniors, seniors, or

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<sup>1</sup> Courses count only toward the Associate in Arts degree.



graduate students only, depending on whether the digit is 1, 2, 3, 4, or 5, respectively.

Following the identification number are a dash and another number, which indicates the maximum credit allowed for the course. The maximum may be variable, such as History 410-2 to 5. Some courses do not terminate at the end of one quarter, as evidenced by two or more numerals in parentheses indicating the credit allowed for each quarter of participation in the course, such as GSC 370-9 (3,3,3). The bold face letters in parentheses correspond to the numerals in parentheses and are followed by a description of the material to be covered that quarter. Next is the title, followed by a description of the course. If certain requirements must be satisfied before enrollment in a course, they are listed as prerequisites.

Not all of the courses described here are offered every quarter or even every year. To find out when and where a course is to be offered, consult the Schedule of Classes, which may be obtained from Central Publications, Southern Illinois University, Edwardsville, Illinois 62025. When requesting a schedule, please specify *campus* (Carbondale or Edwardsville) and *quarter* (fall, winter, spring, or summer).

### **Man's Physical Environment and Biological Inheritance (GSA)**

**101-8 (5,3) Introduction to Physical Science.** (a) A study of the fundamentals of physics covering aspects of mechanics, electricity and magnetism, optics and atomic physics. (c) A study of chemical principles and the atomic structure of matter. Must be taken in a,c sequence. Prerequisite: satisfactory score on placement test or Mathematics 101.

**110-8 (4,4) The Earth and Its Environment.** A study of the earth, its major domains and its space environment; student investigation of earth substances, processes and utilization of energy. An investigative approach for study of the observational and measurement techniques of the earth scientist. Lecture, laboratory, and individual study. Must be taken in a,b sequence. Prerequisite: one year of high school chemistry.

**201-8 (4,4) Man's Biological Inheritance.** Basic biological concepts are explored at levels of integration ranging from the molecular to the ecosystem. Topics include structure and function of cells and organisms, genetics, continuity of life, problems of populations, environmental control, evolutionary development, interrelationships between plants and animals. Must be taken in a,b sequence. Prerequisite: high school or college chemistry.

**312-3 Conservation of Natural Resources.** A study of man's use and misuse of natural environment.

**314-3 Man's Genetic Heritage.** Principles of heredity as related to man, with emphasis on the effects of environment on his biological inheritance.

**322-3 Introduction to Rocks and Minerals.** Specifically designed to acquaint the nonprofessional with the origin, distribution, character, and value of the common materials and rocks in the earth's crust. Prerequisite: 110.

**328-3 Human Reproduction and Development.** Descriptive aspects of human reproduction and development; developmental anomalies; fertility; principles and practices of population control. Three lectures per week. Prerequisite: GSA 201a,b.

**330-3 Weather.** A study of weather elements basic to understanding the various atmospheric happenings, with application to agriculture, industry, recreational resources, etc. May take only 330 or 331 for General Studies credit.

**331-3 Climate.** Description and interpretation of climatic regions and their influence on human activity. May take only 330 or 331 for General Studies credit.

**350-3 Atomic Energy.** A study of the energy needs, resources, and the promise of atomic power. Fission and fusion reactions are considered and used to describe the operation of nuclear reactors and the problems of controlled fusion. The impact of atomic energy in research and technology.

**352-3 Radiation and Life.** A brief survey of the types, sources, and uses of radiation; of the effects of radiation on biological systems including man; and of the impact of the use of radioisotopes on society. Prerequisite: 201b.

**356-3 Astronomy.** The solar system, nebulae, clusters, galaxies, theories of stellar evolution, and cosmology. Evening observations in addition to lecture.

**361-3 Physics of Music and Acoustics.** Nature, propagation, sources, and receptors of sound; acoustic phenomena; physics of musical instruments; mathematics of music; ears and hearing; physiology and psychology; transmission, storage, and reproduction.

**363-6 (3,3) Philosophy of Science.** (a) The logic of scientific explanation illustrated by analysis of physical concepts and theories. (b) The logic of explanation in the biological and behavioral sciences and their implications for the individual and society. Should be taken in a,b sequence.

**365-3 Human Origins.** A consideration of the fossil record and basic principles of human evolution. Prerequisite: 201a,b.

### **Man's Social Inheritance and Social Responsibilities (GSB)**

**101-8 (4,4) Survey of Western Tradition.** (b) Political, economic and cultural history of Europe from the Early Middle Ages to the end of the Napoleonic Age. (c) History of Europe from Congress of Vienna to the present.

**103-8 (4,4) Sociology-Economics.** An introduction to the great economists and sociologists and especially to those writers who are regarded as both. (a) A historical development of sociological ideas and introduction to such concepts as social structure, role behavior, and social institutions. (b) A historical development of economic ideas and an introduction to economic concepts, institutions, and problems. Should be taken in a,b sequence.

**201-8 (4,4) The Individual and His Cultural Environment.** A study of human behavior in the light of cultural and psychological processes. (a) Anthropology: An examination of the biological and cultural origins of mankind; cultural diversity and human behavior; characteristic features of tribal societies, including economy, social organization, language, art, religion, and political organization; place of non-industrialized societies in the modern world. (c) Psychology: Surveys modern psychological approaches to individual behavior; includes basic developmental processes such as learning and motivation plus a study of personality and related adjustment problems. Prerequisite: 101 or 103.

**203-8 (4,4) American Politics in the World Environment.** (a) The theory, organization, and operation of American government. (b) Analysis and interpretation of human geographic patterns; world population, settlement, economic activities. Meets State Constitution requirements.

**300-9 (3,3,3) History of the United States.** A general survey of the political, social, and economic development of the United States. (a) 1492 to 1815, (b) 1815 to 1900, (c) 1900 to the present.

**311-3 Economic Development of the United States.** Emphasizes the underlying trends and forces of change that have led to our present economic structure, level of performance, and world position. Prerequisite: 101c or 103b.

**312-3 Comparative Economic Systems.** A comparative study of the goals, structure, and operation of the major economic systems, such as capitalism, socialism, and fascism. Emphasis upon basic systems of organization and control, and upon mixed economies.

**318-6 (3,3) American State and Local Government.** (a) State. An examination of the role of the states in the federal system and a survey of the governmental processes within the fifty states. (b) Local. A survey of the structure, functions, and problems of the counties, municipalities, towns, townships, and special districts in the United States. Prerequisite: 203a.

**331-3 The American Educational Systems.** A critical and problematic study of education as a major social enterprise of a free society in its context of international involvements. The formative influences upon the American educational systems, its basic characteristics, difficulties and prospects are explored through the disciplines comprising the intellectual-cultural foundations of education. Designed for all students irrespective of major discipline or professional pursuit.

**341-3 Marriage.** An examination of marriage in various societies with an emphasis on the origins, changes, and present status of dating, courtship, and marriage in the United States.



- 351-6 (3,3) Geographic and Cultural Background of Developing Africa.** (a) The relation of geography to the culture of Africa, with emphasis on the place cultural and geographic factors have in the developing nations of Africa. (b) An introduction to the many diverse cultures of Africa from the Egyptian civilization to the Bushman hunters. May be taken separately.
- 354-3 Industrial Economic Geography.** Geographic resource relationship to the economic life of our nation, distribution of resources, industrial production, and the transportation of industrial products.
- 366-3 Growth of Culture.** An examination of the process of culture change and culture growth from the time of the first primates called "man" to the beginnings of civilization.
- 369-3 The Contemporary Far East.** A study of relations between wartime and peacetime economics with specific references to government controls, impact of military expenditures in "hot" and "cold" wars, and the reallocation of resources.
- 380-6 (3,3) East Europe: Cultural Heritage and Present Institutions.** (a) Cultural Heritage, (b) Present Institutions. An introduction to the European area east of the iron curtain with attention evenly divided among Russia, the Balkans, and Northern East Europe.
- 382-6 (3,3) History of Great Britain Since 1782.** The evolution of industrial democracy in Great Britain from the beginning of the Industrial Revolution.
- 388-3 Communism.** A critical examination of various modern theories of communism, with special emphasis on Karl Marx. Prerequisite: Completion of GSB second-level requirements.
- 392-3 Introduction to Latin American Government Politics.** A general introduction to Latin American government on the institutionalized political expression of Latin American civilization and culture. Does not require a reading knowledge of Spanish or Portuguese.

### Man's Insights and Appreciations (GSC)

- 151-3 Introduction to Poetry.** Introduction to the enjoyment of poetry. Practice in techniques of critical reading and writing. Prerequisite: GSD 101a,b.
- 155-5 Introduction to Art.** Basic introduction to the visual arts, particularly painting, sculpture, and architecture. The primary objective is to cultivate skill and discrimination in seeing and understanding works of art from many periods.
- 156-5 Introduction to Music History-Literature.** An introduction to the elements of music, and to the important composers, periods, styles, and forms of music.
- 157-5 The Dramatic Media: Theater, Cinema, and Television.** A study of dramatic media, theater, television, and film with emphasis on the roles and techniques of artists and craftsmen involved. Required theater attendance and television and film viewing. Appropriate research activity.
- 158-5 The Fine Arts.** An introduction to the principal branches of fine arts: visual art, music, and literature. The relationships that bind them together. Due attention is given to the distinguishing attributes of each.
- 252-4 Logic.** Study and practice in the analysis of verbal traps, relations between statements, deductive arguments, and inductive inferences.
- 253-4 Literary Masterpieces of Antiquity.** Reading and discussion of selected literary texts from Classical and Hebraic Antiquity.
- 254-4 Philosophical Masterpieces.** Reading and discussion of selected philosophic masterpieces of western civilization.
- 313-3 Folklore.** The types of folklore, with extensive readings in American and European folklore: practice in collecting and classifying, and in the use of Thompson's index, etc.
- 333-3 The Bible as Literature.** The Bible in English translation considered as literature.
- 335-3 Studies in Short Fiction.** The development of the short story as an artistic expression, its techniques, and its versatility, from the early 19th century to the present.
- 337-3 The English Language Heritage.** A survey of the resources of the English language with emphasis upon the processes of change in vocabulary, meaning, and linguistic pattern.
- 339-3 Classical Mythology and Its Influence.** The major myths: their nature, origin, interpretations, influence, relevance, and use in the modern world.



**340-3 Modern Art A: The Art of the 19th Century.** The principal movements of the 19th century: neo-classicism, romanticism, realism, impressionism, and post-impressionism. The styles of David, Ingres, Delacroix, Corot, Courbet, Manet, Degas, Monet, Renoir, Seurat, Van Gogh, and Gauguin are emphasized.

**341-3 Modern Art B: Art of the Early 20th Century 1890-1925.** A study of modern art as manifest in Fauvism, cubism, and expressionism. Emphasis on the artistic development of Cezanne, Matisse, Rouault, Picasso, Braque, Gris, Leger, Kirchner, and Kandinsky.

**342-3 Modern Art C: Art of the Mid 20th Century 1920-1945.** Abstraction, later German expressionism, the school of Paris, and surrealism. Special attention to the work of de Chirico, Klee, Miro, Beckman, Chagall, Kokoshka, Soutine, and late Matisse, Picasso, Braque, and Leger.

**345-6 (3,3) Masterpieces of World Literature.** A study of the representative works of the varying cultures and eras: (b) medieval, renaissance and 18th century, (c) romantic, Victorian, and modern periods.

**354-9 (3,3,3) History of the Theater.** Drama, performance, architecture, design, and cultural environment of: (a) Primitive, Greek, Roman, Hindu, and medieval; (b) the Renaissance, the 17th and 18th centuries in Europe, Japan, and China; (c) the modern theater in Europe, the United States, Africa, and Latin America. May elect any one or more quarters in any sequence.

**357-3 History of Music Literature.** Development of choral and instrumental music from the Renaissance to the present.

**360-6 (3,3) Arts and Ideals in Famous Cities.** A presentation of the chief art styles and aesthetic ideals of Western culture as they flowered in seven famous cities. A close study of selected masterworks of architecture, fine art, music, literature, and philosophy of art as expressions of men who shaped the physical faces and cultural lives of their cities. (a) 5th century B.C. Athens, 13th century Chartres, late 15th century Florence, and early 16th century Rome. (b) 18th century London, 19th century Paris, 20th century New York.

**363-6 (3,3) Philosophies of Science.** (a) The logic of scientific explanation illustrated by analysis of physical concepts and theories. (b) The logic of explanation in the biological and behavioral sciences and their implications for the individual and society. Should be taken in a,b sequence.

**370-9 (3,3,3) American Art.** A study of the visual arts in the United States. While the emphasis is upon architecture, painting, and sculpture in the context of American social and cultural evolution, the minor arts also are placed in perspective. May be taken in any sequence.

**375-6 (3,3) Ethics.** (a) An investigation of the basic problems related to deciding how men ought to act. (b) An investigation of modern discussions of individual and social morality. Must be taken in a,b sequence.

**390-3 Existentialism.** A critical examination of existentialism as a contemporary perspective on life and reality. Prerequisite: 254 or Philosophy 200.

**391-3 Pragmatism.** A critical examination of pragmatism as a contemporary perspective on life, reality, and American culture. Prerequisite: 254 or Philosophy 200.

### Organization and Communication of Ideas (GSD)

**100-1 Study Skills.** Techniques and opportunities to improve the basic learning skills of the motivated student. Reading improvement, effective listening, and general study skills as they apply to note-taking, studying for examinations, budgeting of time, and use of the library.

**101-6 (3,3) English Composition.** Basic rhetorical principles in expository writing. Must be taken in a,b sequence.

**103-3 Oral Communication of Ideas.** The basic principles and techniques of oral communication as applied to everyday speech activities.

**112-9 (4,5) Introduction to Mathematics.** A study of logical rules of deduction: the real number system, and mathematical structures. Prerequisite: one year of high school algebra and satisfactory score on A.C.T. An alternative course for 114-9. Must be taken in a,b sequence.

**114-9 (5,4) College Algebra, and Trigonometry.** A logical study of the algebraic properties of number systems, polynomials, equations, functions, matrices, exponential and logarithmic functions, trigonometric function. (a) principally algebra. (c) principally trigonometry. An alternative course for 112-9. Must be taken in a,c sequence. Prerequisite: one and one-half years high school algebra and one year high school geometry, or equivalent.

**114d-4 Statistics.** Descriptive statistics, probability distributions, sampling, statistical inference, regression and correlation. An alternative course for 114c. Prerequisite: 114a.

**123-9 (3,3,3) Elementary French.** Open to students who have had no previous work in French. Must be taken in a,b,c sequence.

**126-9 (3,3,3) Elementary German.** Open to students who have had no previous work in German. Must be taken in a,b,c sequence.

**136-9 (3,3,3) Elementary Russian.** No previous knowledge of Russian required. Must be taken in a,b,c sequence.

**140-9 (3,3,3) Elementary Spanish.** Open to students who have had no previous work in Spanish. Must be taken in a,b,c sequence.

**144-9 (3,3,3) Elementary Italian.** Open to students who have had no previous work in Italian. Must be taken in a,b,c sequence.

### Health and Physical Development (GSE)

Courses numbered 101-104 are for men; 111-114 are for women; 115-118 are for both men and women.

**101d-1 Life Saving (Men).**

**102-1 Physical Fitness (Men).**

**104-(1 per activity) Individual and Team Activity (Men).** (c) Basketball, (f) Soccer, (g) Speedball, (j) Softball, (n) Cross Country, (t) Touch Football, (u) Wrestling, (x) Handball.

**111d-1 Life Saving (Women).**

**112-1 Basic Body Movement (Women).**

**114-(1 per activity) Individual and Team Activity (Women).** (c) Basketball, (f) Soccer, (g) Speedball, (j) Softball, (n) Field Hockey, (o) Physical Conditioning.

**115-3 (1,1,1) Restricted Physical Education.**

**116-(1 per activity) Swimming.** (a) Beginning Swimming, (b) Intermediate Swimming, (c) Diving.

**117-(1 per activity) Dance.** (a) Square, (b) Folk, (c) Social, (d) Beginning Contemporary, (e) Intermediate Contemporary, (f) Basic Rhythms.

**118-(1 per activity) Individual and Team Activity.** (a) Archery, (b) Badminton, (d) Bowling, (e) Golf, (f) Billiards, (h) Tennis, (i) Volleyball, (k) Horseback Riding, (l) Sailing, (m) Fencing, (o) Boating and Canoeing, (p) Ice Skating, (q) Fly and Bait Casting, (r) Stunts and Tumbling, (s) Gymnastics, (w) Track and Field, (y) Judo, (z) Recreational Sports.

**201-3 Healthful Living.** Personal and community health. Presents scientific health information as a basis for developing wholesome health attitudes and practices.

### Accounting

**230-4 Accounting Principles.** Study of the basic accounting principles, concepts, conventions, and standards; their application to the analysis and recording of business transactions; and the reporting of the accumulated results. Measurement of income, and matching of expense with revenues through the use of the accrual basis in the accounting system. Prerequisite: sophomore standing.

**231-4 Financial Accounting Analysis.** Introduction to valuation concepts of assets, liabilities, and ownership equities; control of cash, valuation of receivables, inventory valuations and price level changes, fixed asset valuation of receivables, inventory valuations and price level changes, fixed asset valuation and depreciation policy, equity accounting and concepts, bonds, partnerships, and corporations; basics in financial statement analysis—use of ratios and their interrelationship with other factors; funds and cash flow concepts. Prerequisite: 230.

**301-1 to 6 Accounting Readings.**

**330-4 Managerial Cost and Budgeting.** Control concepts, essentials of job order and process costing; budgets and budgeting for planning and control, standards and flexible budgets and use of "exception" principle through variance analysis; control of fixed costs, relevant cost analysis for managerial decision making, capital planning. Prerequisite: 231.



**331-4 Principles of Income Taxation.** Study of the Federal Income Tax laws as they affect individuals, partnerships, corporations, estates, and trusts, in determination of the taxable income for computing the tax liability due. Prerequisite: 231.

**341-4 Cost Accounting Principles.** Comprehensive study of job order and process cost systems, related joint and by-product costing, and estimated cost procedures. Prerequisite: 231.

**351a-4 Accounting Theory and Problems I.** Comprehensive study of the asset accounts, their valuation, presentation, and preservation. Prerequisite: 231.

**351b-4 Accounting Theory and Problems II.** Comprehensive study of the equity accounts, their valuation, presentation, etc. Prerequisite: 351a.

**442-4 Advanced Cost Accounting.** Comprehensive study of budgeting concepts, standard costing and analysis of variances, decision making with alternatives, planning of capital acquisitions, direct costing, relevant cost concepts, and distribution cost problems. Prerequisite: 341.

**453-4 Advanced Accounting Problems.** Comprehensive study of problems in consolidation of financial statements, partnerships dissolution and liquidation, consignment, installment sales, and other advanced accounting topics. Prerequisite: 351b.

**456-4 Auditing.** Study of the concepts, principles, and practices of auditing, including ethics, professional standards, internal control, preparation of audit working papers, audit reports, and related services. Prerequisites: 351b, 442.

**458-4 Accounting Systems.**

**461-4 Advanced CPA Problems.**

**530-4 Conceptual Framework of Accounting.**

**533-4 Managerial Accounting.**

**538-4 Seminar in Accounting.**

### Aerospace Studies

**300-0 Corps Training.**

**301-3, 302-3, 303-3 Professional Officer Course.** A study of the nature of war, the growth and development of aerospace power, the United States Air Force, astronautics and space operations, and the future development of aerospace power. Involves specific exercise of written and spoken communication skills. Requires three hours lecture-seminar; in some cases a one-hour leadership laboratory is also required. Prerequisite: satisfactory completion of the GMC or six-week field training course.

**340-0 Corps Training.**

**350-2 Flight Regulation and Navigation.** A study of flight regulations, weather, and navigation. 4 hours lecture, demonstration-performance. Prerequisite: enrollment in AFROTC Flight Instruction Program or consent of PAS.

**351-3, 352-3, 353-3 Professional Officer Course.** A study of professionalism, leadership, and management. Includes professional responsibilities, the military justice system, leadership theory, functions and practices, management principles and functions, problem solving, and management tools, practices, and controls. Three hours lecture-seminar; in some cases one hour leadership laboratory. Prerequisites: 301, 302, and 303, or consent of PAS.

### American Studies

**398-4 Seminar in American Studies.** A study of American culture with a view towards crossing the boundaries of traditional disciplines. Prerequisite: senior standing.

### Anthropology

**GSB 201a-4 The Individual and His Cultural Environment.**

**304-4 The Origins of Civilization.** The conditions that produced the early high culture of both Old and New Worlds. A study of the complex environmental and cultural factors that led to the rise and fall of early civilizations.

**305-9 (3,3,3) Peoples and Cultures of the World I.** The biological and cultural history of man in (a) North America, (b) Asia, and (c) Oceania from early times to the present.



**GSB 351b-3 Cultural Background of Developing Africa.****GSA 365-3 Human Origins.****GSB 366-3 The Growth of Culture.**

**400-4 Man and Culture.** The nature of culture and cultural process. Relationships of culture and man as an individual and as a group. Emphasis on the anthropological point of view.

**404-4 Primitive Art and Technology.** The development of man as a tool-using and art-loving being. Artistic and technological traditions of non-Western peoples, past and present.

**405-4 Social Anthropology.** A comparative approach to the organizational features of human groups. Functional aspects and distributions of kinship, political, religious, and economic systems.

**408-4 History of Anthropological Thought.** The growth of anthropology to about 1860, followed by a more intensive survey of the concepts and ideas of anthropology during the past hundred years.

**409-4 Anthropology and Modern Life.** The applications of anthropological principles to the solution of problems of the modern world. Contributions of anthropology to the work of the educator, social worker, administrator, business man, government official, and other specialists dealing with man in Western and non-Western cultures.

**416-4 Culture Change.** Examination of long and short range culture change, acculturation process and innovation, theory and method in study of culture change.

**430-4 Archaeology of North America.** An introduction to the methods of archaeology and a survey of prehistoric Indian cultures north of Mexico, with particular emphasis upon the cultures of the Mississippi Valley.

**483-3 to 18 Individual Study in Anthropology.** Guided research upon anthropological problems. Should consult chairman before enrolling.

**507-9 (3,3,3) Pro-seminar in Social Anthropology.**

**508-8 (4,4) Pro-seminar in Cultural Anthropology.**

## Art

Art Education Courses: 300, 365, 408, 466, 560, 566.

Art History Courses: 225, 345, 346, 347, 349, 369, 483, 571.

Studio Courses: 100, 202, 305, 310, 312, 325, 358, 393, 401, 405, 406, 410, 416, 420, 426, 441, 501, 502, 511, 520.

**050-3 Avocational Painting.** An exploration of painting and drawing media for the interested non-major. Emphasis upon individual development of understanding and appreciation of painting media through direct experience in the practice of painting. May be repeated. Three hours credit applicable to degree except in art and design and teacher education.

**051-3 Avocational Ceramics.** An exploration of the ceramics arts for the interested non-major. Emphasis upon individual development of understanding and appreciation of pottery media through direct experience in the practice of the craft. May be repeated. Three hours credit applicable to degree except in art and design and teacher education.

**100-15 (5,5,5) Basic Studio.** A studio course in visual fundamentals emphasizing the ways in which art may be structured. Studio experience in two- and three-dimensional materials. Must be taken in a,b,c sequence.

**202-15 (5,5,5) Intermediate Studio.** An extension of Basic Studio experiences through intensified study of such specific studio disciplines as drawing, painting, sculpture, ceramics, and printmaking. Prerequisite: 100-15.

**225-9 (3,3,3) History of World Art.** A study of painting, sculpture, and architecture from prehistoric to modern times. Emphasis is placed upon the major periods and great styles in relation to their geographical and social backgrounds. Open to all students. (a) The art and architecture of ancient and classical man. (b) Art of the medieval epoch. (c) Art from the Renaissance to the present.

**300-12 (4,4,4) Art Education.** Theory and practice of art activities in the elementary schools. Designed for elementary education students.

**305-12 (4,4,4) Advanced Ceramics.** Intensive study of ceramics as an art form. Prerequisite: 202-15.

**310-12 (4,4,4) Painting.** Intensive study of painting as a medium of expression. Individual rather than group problems are engaged. Prerequisite: 202-15.

**312a-4 Advertising and Graphic Design.** Deals with the basic tools of the advertising designer. Introduction to styles of type, lettering techniques, layout problems, and reproduction processes for advertisements and illustrations in papers, magazines, posters, television, and pamphlets. Creative exercises in designing with type and illustrations.

**312b-4 Advertising and Graphic Design II.** Introduction to the problems of the advertising designer, with special emphasis on typography. Includes type-setting, proof printing, engraving, and lithographic processes. Application of the principles of design to a variety of contemporary projects, with professional standards and performances exacted. Creative and technical class work is supplemented by field trips to printing firms and advertising design studios.

**325-12 (4,4,4) Studio.** No more than 4 hours per quarter. Prerequisites: 8 hours in medium of choice (except where such courses do not exist) and consent of instructor.

**345-3 Art of the Nineteenth Century.** The meaning and varieties of art from the time of the French Revolution until late Impressionist art of the 19th century. Relations to the social environment are interpreted.

**347-9 (3,3,3) Ancient Art.** An interpretation of painting, sculpture, and architecture from prehistoric times through the ancient Egyptian, Mesopotamian, Greek, and Roman civilizations, presented with consideration of the general cultural settings of the peoples involved.

**349-9 (3,3,3) Renaissance and Baroque Art.** Architecture, sculpture, and painting from the waning of the middle ages to the beginnings of modern movements in the 18th century. (a) The Renaissance in northern Europe. (b) The Renaissance in Italy and the south. (c) Mannerism, Baroque, and Rococo art. May be taken independently. Recommended preparation, but not prerequisite: 225.

**358-12 (4,4,4) Prints.** Introduction to printmaking as a medium. Studio projects in intaglio, relief, and planographic processes. Prerequisite: 202-15.

**365-4 Art Education in the Secondary Schools.** For art education students preparing to teach at secondary level; includes studio projects designed to develop awareness of technical and aesthetic needs of high school students, reading and discussion of literature, planning of curriculum. Fall quarter only.

**369-3 Primitive Art.** A study of the arts of "primitive" peoples of Africa, the Pacific, and the Americas. Characteristic works are interpreted in context with the general conditions of primitive society. The significant influences of primitive art on modern painting and sculpture.

**393-12 (4,4,4) Sculpture.** Problems in modeling, carving, casting, and construction. Prerequisite: 202-15.

**401-2 to 12 Research in Painting.** Prerequisite: 310-12.

**405-2 to 12 Studio in Sculpture.** Prerequisite: 393-12.

**406-2 to 12 Studio in Painting.** Prerequisite: 310-12.

**408-4 Art Education for Elementary Teachers II.**

**410-2 to 12 Research in Prints.** Prerequisite: 358-12.

**416-2 to 12 Studio in Prints.** Prerequisite: 358-12.

**420-2 to 12 Research in Pottery.** Prerequisite: 305-12.

**426-2 to 12 Studio in Pottery.** Prerequisite: 305-12.

**441-2 to 6 Studio in Drawing.**

**460-2 to 12 Research in Art Education.**

**466-2 to 12 Studio in Art Education.**

**483-3 to 12 Research in Art History.**

**501-2 to 12 Seminar in Painting.**

**502-2 to 12 Seminar in Sculpture.**

**511-2 to 12 Seminar in Prints.**

**520-2 to 12 Seminar in Pottery.**

**560-2 to 12 Seminar in Art Education.**

**566-2 to 12 Research in Art Education.**

**571-2 to 5 Readings in Art History.**

**599-5 to 9 Thesis.**

## Biology

**301-12 (4,4,4) Concepts at the Cellular Level. (a,b) Cell Structure and Function.** Structure, organization, and function of cells, organelles, and macromolecules. Three lecture and three laboratory hours per week. (c) Developmental Biology. Morphogenesis, differentiation, growth, and regeneration in plants and



animals. Three lecture and three laboratory hours per week. Must be taken in a,b,c sequence. Prerequisites: GSA 201a,b and Chemistry 305b or 341c.

**302 (5,5,5,5) Concepts at the Organism Level.** The form, function, classification, and phylogeny of organisms. (a) Animal life. Sponges through mammals. Two lecture and six laboratory hours per week. (b) The lower organisms. Viruses, bacteria, algae, molds, and protozoa. Three lecture and four laboratory hours per week. (c) Plant life. Bryophytes through flowering plants. Three lecture and four laboratory hours per week. Prerequisite for a,b,c: GSA 201a,b. (d) Physiology. Function and regulation in plants and animals. Four lecture and three laboratory hours per week. Prerequisites for d: 302a,c and Chemistry 111a,b.

**303-11 (4,3,4) Concepts at the Population Level.** (a) Genetics. Mechanism of inheritance, gene action, and the origin of genetic diversity. Three lecture and two laboratory hours per week. (b) Evolution. Evolutionary change including population genetics, ecological factors, selection, and speciation. Three lecture hours per week. (c) Ecology. Life and the environment; energy relationships and succession. Three lecture and four laboratory hours per week. Saturday field trips required. Must be taken in a,b,c sequence. Prerequisite: GSA 201a,b.

**310a-4 Human Anatomy and Physiology.** A survey of the structure and function of the principle systems of the human body. Four lecture hours per week. No credit toward a secondary concentration in biology. Prerequisite: GSA 201a.

**310b-2 Human Anatomy and Physiology.** To be taken concurrently with 310a. Four laboratory hours per week. No credit toward a secondary concentration in biology. Prerequisite: concurrent enrollment in 310a.

**311-5 Applied Bacteriology.** A treatment of cytology, theories and techniques of staining, physiology and classification of microorganisms and their medical relationships. Three lecture and four laboratory hours per week. No credit toward a secondary concentration in biology. Prerequisite: GSA 201a,b.

**GSA 314-3 Man's Genetic Heritage.**

**390-0 to 1 (0,0,1) Undergraduate Biology Seminar.** Presentations by faculty, visiting investigators, and students. Students give one seminar per year. May be repeated. Prerequisite: junior or senior standing.

**410-4 Advanced Genetics.** A study of quantitative inheritance, chromosomal evolution and organization, the regulation of gene action, and radiation genetics. Three lectures and one laboratory per week. Prerequisites: 303a, GSD 114d.

**415-4 Experimental Embryology.** A survey of the literature from the beginning of experimental embryology; the laboratory includes classical and modern techniques. Two lectures and two laboratories per week. Prerequisites: 301c and organic chemistry or concurrent registration. Limited to ten students.

**420-4 Plant Synecology.** The structure, development, and causative factors in the distribution of plant communities. Field techniques for quantitative measurements and interpretations of successful dynamics are stressed. Three lectures and one laboratory per week. Saturday field trips required. Prerequisite: 303c.

**423-4 Principles of Parasitism.** Principles dealing with parasitic relationships. Includes study of types of association, morphologic and physiologic adaptations of parasites, defensive mechanisms, immunity, and specificity. Selected examples from the plants and animals are used to illustrate the general principles and life histories. Two lectures and two laboratories per week. Prerequisite: 302a,b,c.

**435-4 Ethology.** A survey of animal interactions and the response of animals to environmental stimuli. Three lectures and one laboratory per week. Prerequisite: 302a.

**441-3 Mammalian Physiology.** Nervous and endocrine coordinating processes, sensory function, circulation, respiration, alimentation, and regulation of body fluids, with special reference to man. Three lecture hours per week. No graduate credit. Prerequisites: organic chemistry and 302d or 310.

**442-1 Mammalian Physiology Laboratory.** Selected experiments with mammals including man. One three-hour laboratory per week. No graduate credit. Prerequisite: concurrent enrollment in 441.

**444-4 Integrative Physiology.** Mechanisms of response and integration with emphasis on the role of the nervous systems. Three lectures and one laboratory per week. Prerequisites: 301a, 302a, and organic chemistry or concurrent registration.



**447-4 Topics in Plant Physiology.** Photosynthesis, mineral nutrition of plants, water regime, growth and movement of plants. Two lectures and two laboratories per week. Prerequisites: 302c, Chemistry 111a,b,c.

**455-4 Plant Anatomy.** Developmental and comparative studies of seed plants including structure of vegetative and reproductive parts and embryology. Three lectures and one laboratory per week. Prerequisite: 302c.

**458-5 Functional Morphology of Vertebrates.** The phylogenetic approach to comparative form, function, and development of vertebrate organisms. Two lectures and three laboratories per week. Prerequisite: 302a.

**470-4 Field Botany.** Taxonomy, natural history, and distribution of local plants. Two lectures and two laboratories per week. Field trips cost \$10-\$25 per student. Prerequisite: 302c.

**480-4 Field Zoology.** Taxonomy, natural history, and distribution of local animals. Two lectures and two laboratories per week. Field trips cost \$10-\$25 per student. Prerequisite: 302a.

**485-4 Ichthyology.** Relationships, ecology, behavior, physiology, and anatomy of fishes. Field study of local fauna is stressed. Two lectures and two laboratories per week. Saturday field trips required. Prerequisite: 302a or consent of instructor.

**486-4 Herpetology.** A study of amphibians and reptiles, their evolution, relationships, morphology, and behavior. Two lectures and two laboratories per week. Saturday field trips required. Prerequisite: 302a,c or consent of instructor.

**488-4 Mammalogy.** Taxonomy, natural history, and evolution of mammals. Two lectures and two laboratories per week. Prerequisite: 302a.

**493-2 to 8 Research in Biology.** Research on biological problems. No credit toward a secondary concentration in biology. Prerequisites: senior standing and consent of faculty.

**497-2 to 8 Biology Field Studies.** A trip of four to eight weeks to acquaint students with animals or plants in various environments and/or with methods of field study, collection, and preservation. Arrangements made in advance of term; travel costs borne by the student. No credit toward a secondary concentration in biology. Prerequisite: consent of faculty.

**501-2 Research Orientation.**

**504-9 (3,3,3) Instructional Innovation in Secondary School Biology.**

**506-4 Cellular Regulation.**

**511-4 Population Genetics.**

**512-4 Cytogenetics.**

**521-4 Limnology.**

**524-3 Biogeography.**

**545-3 Physiology of Sense Organs.**

**547-3 Mineral Nutrition of Plants.**

**553-4 Morphology of the Spermatophytes.**

**580-4 Advanced Invertebrates.**

**581-4 Helminthology.**

**590-3 (1,1,1) Graduate Biology Seminar.**

**591-1 to 4 Readings in Biology.**

**593-1 to 4 Special Problems in Biology.**

**599-2 to 9 Research and Thesis.**

## Business Communications

**390-4 Business Communications.** Designed to improve understanding of the vital role of effective communication in business and to develop skill in business writing with emphasis on the preparation of reports. Provides an opportunity to learn effective use of a business library; to collect and interpret data; to present information in a logically organized and acceptable form. Prerequisites: GSD 101b, concurrent registration in General Business Administration 340.

## Business Education

**201-9 (3,3,3) Typewriting.** Mastery of the keyboard, speed and accuracy in the touch operation of the typewriter, and skill and knowledge needed for vocational and personal uses. (a) Prerequisite: may not be taken for credit by

students who have had previous high school or other formal instruction in typewriting. (b) Prerequisite: 201a or one semester of other formal instruction in typewriting and the ability to type at least 30 words per minute. (c) Prerequisite: 201b or two semesters of other formal instruction in typewriting and the ability to type at least 40 words per minute and to prepare simple business correspondence, tables, manuscripts, and forms.

**221-12 (4,4,4) Shorthand and Transcription.** Study of Gregg shorthand theory and the development of skill and knowledge required for dictation and transcription. (a) Prerequisite: may not be taken for credit by students who have had previous high school or other formal instruction in shorthand. (b) Prerequisite: 221a or one semester of other formal instruction in shorthand-transcription. (c) Prerequisites: 221b or two semesters of other formal instruction in shorthand-transcription and the ability to take new-matter dictation at 60 words per minute for three minutes.

**241-2 Duplicating.**

**304-3 Advanced Typewriting.** Development of advanced skills in typing business correspondence, manuscripts, forms, and tables; preparation of copy from rough draft materials. Prerequisites: 201c or three semesters of other formal instruction in typewriting and the ability to type at least 50 words per minute and to prepare business correspondence, tables, and manuscripts.

**324a-4 Advanced Shorthand and Transcription I.** The development of high-level dictation and transcription skill and knowledge. Prerequisites: 221c or three semesters of other formal instruction in shorthand-transcription and the ability to transcribe on the typewriter new-matter dictation taken at a sustained rate of 80 words per minute.

**324b-4 Advanced Shorthand and Transcription II.** A continuation of 324a. Prerequisites: 324a or four semesters of other formal instruction in shorthand-transcription and the ability to transcribe on the typewriters new-matter dictation taken at a sustained rate of 90 words per minute.

**327-4 Office Theories and Procedures.** A study of office efficiency, techniques, filing procedures, financial and legal responsibilities, and other office activities. Opportunities to explore reference sources, to prepare for and participate in interviews, to make self evaluations, and to pursue areas of special interest. Operation of dictating and transcribing equipment. Prerequisite: 201c or equivalent.

**341-4 Office Machines.** A study of the capabilities and operational characteristics of basic types of office machines; a consideration of appropriate uses of each kind of machine. Laboratory practice required. A unit in data processing gives opportunity for key-punch instruction.

**350-4 Consumer Income Management.** The development of concepts relative to the management of the personal financial affairs of the American consumer. Budgeting income and expenses, installment purchasing, comparison of prices, insurance, real estate, taxation, and savings and investments.

**351-4 Foundations of Business Education.** The role of the business teacher in the secondary and post-secondary school. An analysis of business education objectives and curriculum. A survey of trends and external influences as they affect business education.

**403-3 Teaching Typewriting.** Instructional procedures, skill-building principles and techniques, selection and preparation of instructional materials, standards of achievement, and evaluation of pupil performance. Prerequisite: 304.

**404-3 Teaching Shorthand and Transcription.** Instructional procedures, skill-building principles and techniques, selection and preparation of instructional materials, standards of achievement, and evaluation of pupil performance. Prerequisite: 324a.

**405-4 Teaching General Basic Business Subjects.** Instructional procedures, analysis and selection of materials, preparation of teaching units, evaluation of pupil performance.

**406-4 Teaching Office Practice.** Instructional procedures, skill-building, evaluation of teaching materials, and pupil performance for office practice and office machines. Prerequisite: 341 or equivalent.

**408-3 Teaching Data Processing and Bookkeeping.** Instructional procedures, analysis and selection of materials, preparation of a teaching unit in data processing, and evaluation of pupil performance.

**414-6 (3,3) Organization and Administration of Cooperative Vocational Business Education Programs.** Philosophy and objectives of cooperative vocational programs, methods of selecting students and work stations, placing and supervising students on part-time jobs, preparation of instructional materials, job



analyses, conducting related information courses, evaluating workers and work stations, advisory committees, and public relations aspects of cooperative programs.

**415-6 Supervised Business Experience and Related Study.** Classroom study of the principles and problems of coordinating in-school and cooperative vocational business education programs, with analysis and evaluation of on-the-job experiences of the members of the class in relation to their future work as coordinators and vocational teachers.

**417-4 Application of Data Processing in Business Education.** Acquaints business teachers with data processing applications in high school business classes. Emphasis on vocabulary development, unit record equipment, concepts of programming, and fundamentals of computer applications applicable to high school students. Approximately one-third of course is spent in machine operation. Prerequisite: Management Operating Systems 280.

**426-4 Office Management.** The principles of management as applied to office problems. Emphasis on the role of the office in business management; office organization; physical facilities and layout of the office; office services, procedures, standards, and controls.

**427-4 Records Administration.** The development of records management from its inception, and the recognition of the need for paper work management. Stress on the use of information management techniques in support of organization management, control, and evaluation. Each phase of the life of records from creation to disposal or permanent retention. Potentials of data processing, microphotography, new developments in information handling equipment.

**428-4 Systems and Procedures.** A problems approach to the office systems-procedures function in the modern business firm; seminar and laboratory work on improvement of systems and procedures, administrative information and paperwork engineering; theory of office-systems design; systems administration and work simplification. Prerequisite: 426.

**500-4 Principles and Problems of Business Education.**

**502-4 Introduction to Research in Business Education.**

**503-4 Tests and Measurements in Business Education.**

**505-2 to 16 Workshop in Business Education.**

**507-4 Teaching Data Processing.**

**508-4 Administration and Supervision in Business Education.**

**509-4 Improvement of Instruction in General (Basic) Business Subjects.**

**510-4 Improvements of Instruction in Secretarial Subjects.**

**530-4 Research Seminar in Business Education.**

**590-2 to 5 Readings in Business Education.**

**591-2 to 5 Individual Research in Business Education.**

**599-1 to 9 Thesis.**

## Chemistry

**110-4 General and Inorganic Chemistry.** A brief introduction to the structure of the atom and chemical bonding; acids, bases, salts, and pH; and a study of the properties and reactions of some of the more common elements. Three lecture and three laboratory hours per week. Not applicable to a concentration or to a secondary concentration in chemistry.

**111-15 (5,5,5) Chemical Principles and Inorganic Chemistry.** (a) Nature of matter, gas laws, periodic classification, laws of combination, chemical calculations. Students with an excellent record in high school chemistry may be able to start with (b). Three lecture, one quiz, and three laboratory hours per week. Prerequisites: high school algebra and geometry or equivalent; (b) solutions, kinetics, equilibrium, electrochemistry, and chemistry of the elements. Three lecture, one quiz, and three laboratory hours per week. Prerequisite: 111a or strong background in high school chemistry; (c) continuation of chemistry of the elements, ionic equilibria, and qualitative analysis. Three lecture and six laboratory hours per week. Prerequisite: 111b.

**235-5 General Quantitative Analysis.** Introduction to the theories and methods of volumetric and gravimetric techniques. Three lecture and six laboratory hours per week. Prerequisite: 111c.

**240-4 Organic Chemistry.** A survey course not open to those concentrating in chemistry. An introduction to aliphatic and aromatic compounds with emphasis on those of biological importance. Three lecture and three laboratory hours per week. Prerequisite: 110 or 111b.



**250-4 Biochemistry and Nutrition.** An introduction to biochemistry, metabolism, and nutrition. Four lecture hours per week. Not applicable to a concentration or to a secondary concentration in chemistry. Prerequisite: 240.

**305-6 (3,3) Organic Chemistry, Preprofessional.** For secondary concentration in chemistry and preprofessional students. Three lecture hours per week. Prerequisite: 111c.

**311-3 Inorganic Chemistry.** Introduction to theories of bonding and structure, symmetry, complexions, and less familiar elements. Three lectures per week. Prerequisite: 111c.

**336-4 Analytical Chemistry.** Continuation of volumetric and gravimetric theories and methods with an introduction to instrumental methods. Two lecture and six laboratory hours per week. Prerequisite: 235.

**341-9 (3,3,3) Organic Chemistry.** Three lecture hours per week. Must be taken in a,b,c sequence. Prerequisite: 111c.

**345-6 (2,2,2) Organic Chemistry Laboratory.** Must be taken in a,b,c sequence. Prerequisite: 305a or concurrent enrollment in 341a.

**375-0 to 3 Chemistry Seminar.** One lecture per week. Prerequisite: senior standing.

**411-4 Intermediate Inorganic Chemistry.** Modern inorganic chemistry including atomic structure, chemical bonds, complexes, and chelate structures; with emphasis on physical chemical principles. Four lecture hours per week. Prerequisite: 460 or 461b. May be taken concurrently.

**412-3 Inorganic Preparation.** A study of several important types of inorganic syntheses. One lecture and six laboratory hours per week. Prerequisites: 235 and 305b or 341c.

**432-8 (4,4) Instrumental Analytical Measurements.** Theory and practice of instrumental analytical measurements, including spectrophotometric, electro-analytical, and chromatographic methods. Two lecture and six laboratory hours per week. Prerequisite: 461b. May be taken concurrently.

**433-3 Intermediate Quantitative Analysis.** A study of the analysis of complex materials, with emphasis on separations, functional group analysis, and instrumental applications. Two lecture and three laboratory hours per week. Prerequisites: 432a or b, 461c.

**444-3 Organic Reactions.** An intermediate course with emphasis on mono-functional compounds. Additional topics, not included in elementary courses. Three lecture hours per week. Prerequisite: 341c.

**446-4 Qualitative Organic Analysis.** A systematic study of the separation and identification of organic compounds by a procedure based on solubility and classification reagents. Two lecture and six laboratory hours per week. Prerequisite: 305b or 341c.

**447-3 Quantitative Organic Chemistry.** The determination of functional groups and elements commonly found in organic compounds by selected methods of analysis; illustration of general methods of procedure in the field of quantitative organic chemistry. One lecture, six laboratory hours per week.

**451-6 (3,3) Biochemistry.** (a) Carbohydrates, lipids, amino acids and proteins, nucleic acids and nucleo-proteins, enzymes. (b) Vitamins and coenzymes, metabolism of carbohydrates, lipids, amino acids and proteins, energy metabolism, hormones. Must be taken in a,b sequence. Prerequisite: 235, 305b or 341c.

**455-2 (1,1) Experimental Methods in Biochemistry.** (a) Some modern separation techniques. (b) Biochemical preparations, syntheses, and methods of identification. Prerequisite: concurrent enrollment in 451a.

**460-5 Theoretical Chemistry.** Traditional aspects of physical chemistry without the requirement of calculus. Four lecture and three laboratory hours per week. Prerequisites: 235, 305b or 341c, and one year of physics or consent of instructor.

**461-12 (4,4,4) Physical Chemistry.** (a) Gases, liquids, solids, solutions, and homogeneous and heterogeneous equilibria. Three lecture and three laboratory hours per week. (b) Chemical kinetics, electrical conductance, electromotive force, and electrolytic equilibrium. Three lecture and three laboratory hours per week. (c) Chemical Thermodynamics, the quantum theory, nuclear structure, photochemistry, atomic and molecular structure. Three lecture and three laboratory hours per week. Must be taken in a,b,c sequence. Prerequisites: 235 (concurrent), 341c, 12 hours of physics, and one year of calculus.

**464-3 Intermediate Physical Chemistry.** Intermediate between the first year of undergraduate physical chemistry and advanced physical chemistry. Three lecture hours per week. Prerequisite: 461c.

**490-2 Chemical Literature.** A study description of the various sources of chemical information and the techniques for carrying out literature searches. Two lecture hours per week. Prerequisites: 235, 305b or 341c, reading knowledge of German or consent of instructor.

**496-2 to 6 Chemical Problems.** Investigation of relatively simple problems under the direction of a staff member. Prerequisites: senior standing, concentration in chemistry with 4.0 average, and consent of chairman.

**511-9 (3,3,3) Advanced Inorganic Chemistry.**

**517-3 Laboratory Techniques in Inorganic Chemistry.**

**519-2 to 30 (2 to 6 per quarter) Advanced Topics in Inorganic Chemistry.**

**531-3 Theory of Quantitative Analysis.**

**539-2 to 30 (2 to 6 per quarter) Advanced Topics in Analytical Chemistry.**

**541-3 Advanced Organic Chemistry.**

**547-3 to 6 Advanced Laboratory Preparations in Organic Chemistry.**

**549-2 to 30 (2 to 6 per quarter) Advanced Topics in Organic Chemistry.**

**561-3 Chemical Thermodynamics.**

**562-3 Atomic and Molecular Structure.**

**569-2 to 30 (2 to 6 per quarter) Advanced Topics in Physical Chemistry.**

**575-1 to 3 Graduate Seminar.**

**597-3 to 15 Research and Thesis.**

### Comparative Literature

**410-20 (4,4,4,4,4) Comparative Literature: Genres.** (a) lyric and epic poetry. (b) drama. (c) prose. (d) tragedy. (e) novel.

**499-4 Traditional Themes of World Literature.** Prerequisites: any course in comparative literature and a course in English, foreign, or comparative literature.

### Counselor Education

**305-4 Educational Psychology.** Study of the learner and the learning process. Includes study of behavior, discipline, development, the school environment, application of learning theories, and methods of assessment. Prerequisite: GSB 201c.

**410-4 (2,2) Dynamics of Campus Leadership.** An organized presentation of accurate information about the University's historical development and plans for future growth, organizational structure, philosophy, administrative policies, and goals with emphasis on the role of student groups in the educational community. (a) Elected or potential student leaders. (b) Resident assistants. Prerequisite: consent of instructor.

**420-4 Educational Statistics.** The statistics needed by teachers for classroom use, the reading of educational literature, and informal educational research. Includes methods of organizing and presenting data, describing group performance, describing individual performance, model distributions, measure of relationship, measures of reliability, and tests of significance. Prerequisite: 305.

**422-4 Educational Measurements I.** Study of the philosophy and techniques of measurements. Special attention to the construction and use of teacher-made tests. Prerequisite: 305.

**426-4 Individual Inventory.** Principles and procedures for studying individual pupils and their problems for guidance purposes. Emphasis on interview, observation, ratings, case study, cumulative record, etc.

**483-6 Community Programs for the Prevention of Juvenile Delinquency.** Analysis of delinquency prevention in community programs administered by the public schools, social welfare, governmental agencies. A study of the various categories of juvenile delinquency is applied to a critique of existing programs and to the development of experimental programs. The roles of professional workers pertinent to such programs is delineated with special reference to the public school administration, counselor, the social workers, the court, probation officers, and police. Prerequisite: consent of instructor.

**485-4 to 9 Workshop in Educational Utilization of Community Resources.**

**501-2 to 8 Special Research Problems.**

**510-4 College Student Personnel Services.**

**511-4 Educational Implications of Learning Theories.**

**515-4 Psychological Aspects of Education.**



- 520-8 Educational Statistics and Experimental Design.
- 522-4 Educational Measurement II.
- 525-4 School Behavior Problems and Their Prevention.
- 526-4 Techniques of Individual Guidance.
- 528-4 Advanced Guidance of the Individual.
- 535-4 Introduction to Individual Measurement.
- 536a-4 Appraisal of Intelligence: Child.
- 536b-4 Appraisal of Intelligence: Child and Adult.
- 536c-4 Appraisal of Intelligence.
- 537-4 Counseling Theory and Practice I.
- 538-4 Counseling Theory and Practice II.
- 541-4 Occupational Information and Guidance.
- 542-4 Basic Principles of Guidance.
- 543-4 Guidance Through Groups.
- 545a-2 to 4 Seminar: Problems in Guidance.
- 545b-2 to 4 Seminar: Learning and Communication.
- 545f-2 to 4 Seminar: Pupil Adjustment.
- 545j-2 to 4 Seminar: Organization and Administration.
- 562a-4 Child Development in Education.
- 562b-4 Adolescent Development in Education.
- 575c-1 to 2 Practicum in Guidance.
- 576-4 to 8 Practicum in School Personnel Work.

### Economics

- 200-4 **Macroeconomics.** An introduction to national economic systems with attention to the meaning and measurement of national income, and the causes of fluctuations therein. National economic objectives and policies, including the distribution of income, the level of employment factors affecting stability and growth, the role of taxation. Prerequisite: sophomore standing.
- 201-4 **Microeconomics.** Principles and characteristics of the market economy. Theory of the business firm, supply, demand, and prices. Analysis of earnings of productive resources, including wages, rent, interest, and profit. Introduction to market structure and public policy. Prerequisite: sophomore standing.
- 300-4 **The Monetary System and Economic Policy.** Study of relationships between money, credit, prices, and economic activity. How the banking system creates money; the Federal Reserve System. Introduction to public finance and fiscal policy; the role of public finance in full employment policy. Introduction to international financial relationships. Prerequisite: 200.
- 310-4 **Labor Problems.** Survey of labor force, wage and employment theory, unemployment including economic insecurity, trade unionism, and collective bargaining from the standpoint of public policy. Prerequisites: 200, 201.
- GSB 311-3 **Economic Development of the United States.**
- GSB 312-3 **Comparative Economic Systems.**
- 317-4 **Economic History of the United States.**
- 330-4 **Public Finance I: National.** The role of government in the economy, optimum levels of public activities, government budgets, and national income; financing of government expenditures, principles of taxation, examination of fiscal policy. Prerequisite: 300.
- 411-4 **Collective Bargaining and Dispute Settlement.**
- 416-4 **Money and Banking II.** Evolution of money systems, theories of effect of money supply on national income, debt, asset-holdings, etc.; relationships of money supply to specific industries and key economic variables and considerations. Prerequisite: 300.
- 418-4 **Economic History of Europe.**
- 422-4 **Introduction to Economic Development.** The preconditions, processes, and problems involved in economic development. The theory and policy relevant to development, with emphasis on the "developing" or "emerging" economies. Prerequisites: 200, 201.
- 429-4 **International Economics.** Intensive treatment of the principles of international economics with special emphasis on the classical and modern theories of international trade. Income effects and balance of payment theory. Prerequisites: 200, 201.
- 430-4 **Regional Economy.** Regional economic development, including theoretical and practical problems in designing and implementing development programs.



- 431-3 Public Finance II. State and Local.** Prerequisite: 330.
- 432-3 Fiscal Policy of the United States.** Countercyclical, secular, and emergency use of government expenditures, debt, and taxes.
- 436-3 Government and Labor.** A study of labor relations and legislation considering both constitutional and economic aspects. Prerequisite: 310 or consent of instructor.
- 440-4 Intermediate Micro Theory.** An intensive treatment of price and income theory with emphasis on degrees of price and other competition. Prerequisite: 201.
- 441-4 Intermediate Macro Theory.** Basic analytical concepts of the modern theory of aggregative income. Prerequisite: 200, 201 or consent of instructor.
- 450-6 (3,3) History of Economic Thought.** The development of economic thought; (a) ancients to 1850; (b) 1850 to present. Must be taken in a,b sequence. Prerequisites: 200, 201.
- 465-4 Mathematical Economics I.** A systematic survey of mathematical economic theory. Conditions of static equilibrium (including stability conditions), dynamic models using difference equations, and linear production models of input-output analysis and activity analysis (linear programming). Prerequisites: 440, consent of instructor.
- 467-4 Econometrics I.** Introduction to resource allocation under uncertainty. Probabilistic economic models, theory of games and economic choices, and stochastic economic processes. Prerequisite: consent of instructor.
- 470-3 Business Cycles.** Major business fluctuations in the United States, prices, employment, production, credit, inflation, and deflation, and government action during the cycles. Prerequisite: 300 or 441.
- 473-4 Business Enterprise and Public Policy.** Some of the major problems of social control of business arising out of the operation of business in modern society; types of control, necessity, and effects of controls. Prerequisite: senior standing.
- 481-3 Comparative Economic Systems.** Capitalism, socialism, fascism, and other forms of the economy. Prerequisites: 200, 201.
- 501-1 to 5 Economic Readings.**
- 504-4 Economic Analysis.**
- 505-4 Theory of the Firm.**
- 512-4 Labor Economics.**
- 516-4 Econometrics II.**
- 517-4 Monetary Theory and Policy.**
- 519-4 Economic Growth.**
- 520-4 Economic Development Theory and Policy.**
- 530-4 International Economics and Finance.**
- 533-4 Public Finance Theory and Practice.**
- 541-4 National Income Theory.**
- 542-4 Price Theory.**
- 543-4 Seminar in Economic Policy.**
- 561-4 Advanced Topics in Economic History.**
- 566-4 Mathematical Economics II.**
- 582-4 Economic Behavior.**
- 599-1 to 9 Thesis.**

## Educational Administration

- GSB 331-3 The American Educational Systems.**
- 355-4 Philosophy of Education.** The philosophical principles of education and the educational theories and agencies involved in the work of the schools. Prerequisite: Counselor Education 305.
- 420-4 Legal Basis of American Education.** Particular emphasis is placed on common law principles.
- 431-4 History of Education in the United States.** A historical study of the problems of American education relevant to contemporary education.
- 432-4 Public Opinion: Propaganda and Education.** Analysis and classification of propaganda. Designed to show how public opinion is formed by a use of current materials from the different channels of communication. Differences between propaganda and indoctrination.
- 434-4 Administrator's Workshop.** A special program for the consideration of administrative problems pertinent to superintendents, high school principals, and elementary school principals.

**456-4 School Supervision.** The function of the principal or supervisor in the improvement of instruction. Some activities, methods, and devices for improving the effectiveness of teaching.

**480-4 Backgrounds of Urban Education.** (Same as Elementary Education 480 and Secondary Education 480.) A study of social, economic, and demographic factors as they impinge upon programs in urban schools, particularly those in the inner city. Prerequisite: consent of instructor.

**490-4 to 12 International Field Study in Comparative Education.** International field study of selected aspects of national systems of education examined in their social matrix. By means of direct observation, conferences, lectures, and seminars, the advanced education student is helped to gain a mature perspective on American education through comparison and contrast with educational systems of other societies to critically evaluate American educational patterns in light of observed alternatives, and to develop fresh curricular approaches in the area of international understandings through an examination of other cultural patterns. With the permission of the instructor this course may be repeated with credit.

**500-4 Research Methods.**

**501-4 Seminar in Educational Administration.**

**502-4 Seminar in Comparative Education.**

**503-0 to 4 Seminar in Philosophy of Education.**

**504-4 Seminar in History of European Education.**

**506-4 Seminar: Curriculum in Relation to American Culture.**

**511-12 (4,4,4) Internship Practicum.**

**520-4 Illinois School Law.**

**524-4 School Administration.**

**525-4 Personnel Administration.**

**533-4 School Buildings.**

**534a-4 School Finance.**

**534b-4 School Business Administration.**

**551-4 Community Junior College Curriculum.**

**553-2 to 12 Practicum in Urban Education.**

**554-4 Contrasting Philosophies of Education.**

**556-4 Seminar in Educational Supervision.**

**560-4 Curriculum.**

**563-4 Workshop in School Public Relations.**

**565-4 The Community Junior College.**

**575a-k-2 to 4 each Individual Research.**

**596-5 to 9 Independent Investigation.**

**597-1 to 3, 598-1 to 3, 599-1 to 3 Thesis.**

## Elementary Education

**203-3 Understanding the Elementary School Child.** Concepts needed to understand the child in the elementary school situation. Two hours lecture and two hours observation. Prerequisite: GSB 201c.

**314-4 Elementary School Methods.** The fundamental principles of education, the interpretation of current educational theory and practice, the processes of teaching and learning involved in elementary education. Prerequisites: Counselor Education 305, Educational Administration 355.

**316-4 Kindergarten-Primary Methods and Curriculum.** Philosophy and principles underlying the teaching of four-to-eight-year-olds. Emphasis upon organization, equipment, materials, and methods for promoting growth of young children. Prerequisites: Counselor Education 305, Educational Administration 355.

**337-4 Reading in the Elementary Schools.** The principles of reading, factors that condition reading, together with grade placement of aims and materials; diagnostic and remedial treatment. Prerequisites: 314, Counselor Education 305, Educational Administration 355.

**350d-8 to 12 Kindergarten-Primary Student Teaching.** Prerequisites: Counselor Education 305, Educational Administration 355, approval of elementary education adviser.

**350e-4 to 8 Advanced Kindergarten-Primary Student Teaching.** Prerequisite: 350d.

**351a, 351b, 351c-4 to 16 Elementary Student Teaching.**



**351d-8 to 16 Elementary Student Teaching.** Prerequisites: 314, Counselor Education 305, Educational Administration 355, other courses listed in each area of concentration, and approval of elementary education adviser.

**351e-4 to 8 Advanced Elementary Student Teaching.** Prerequisite: 351d.

**413-4 Children's Literature.** Emphasizes types of literature, analysis of literary qualities, and selection and presentation of literature for children. Not for students who have had English 213. Prerequisite: Counselor Education 305.

**415-2 to 4 Improvement of Instruction in Arithmetic in the Elementary School.** Items to be taught, the grade placement of content, newer instructional practices and materials of instruction, and means of evaluating achievement. Prerequisites: 314, GSD 112.

**433-4 Workshop in Elementary Education.** Meets needs of in-service teachers in such areas as curriculum adjustment, remedial teaching, child development, and early childhood education.

**437-4 Problems in Reading.** Practices and trends in the teaching of reading; materials of instruction in reading, particularly remedial materials; techniques and materials for prevention of reading difficulties; diagnosis and remediation of reading difficulties. Prerequisites: 337, senior standing. Not open to students having had 505.

**442-4 Science for the Elementary Teacher.** Study of content and methods of elementary school science.

**470-3 Workshop in Sex Education for Elementary Teachers.** Designed to encourage elementary school teachers to integrate sex education concepts into their teaching program. Current theories and knowledge concerning the psychosocial aspects of the maturation process are related to the content used for teaching pupils at various grade levels. Specialists in psychology, public health, and social welfare offer a multi-discipline approach to help teachers plan a program based upon characteristics and needs of pupils.

**480-4 Backgrounds of Urban Education.** (See Educational Administration 480 and Elementary Education 480.)

**505-4 Improvement of Reading Instruction.**

**507-2 to 4 Readings in Reading.**

**509-4 to 8 Practicum in Reading.**

**514-4 Organization and Administration of Reading Programs.**

**515-4 Special Problems in the Teaching of Arithmetic in the Elementary School.**

**518-2 to 4 Supervision of Student Teachers.**

**521-12 (4,4,4) Diagnosis and Correction of Reading Disabilities.**

**541-4 Curriculum Problems in Elementary School Science.**

**542-4 Language Arts in the Elementary School.**

**543-4 Teaching the Social Studies in the Elementary School.**

**557-4 The Elementary Principalship.**

**559-4 Workshop in Instructional Leadership in Elementary Education**

**561-4 The Elementary School Curriculum.**

**567-12 (4,4,4) Teaching Competencies and Their Application.**

**575a-k-2 to 4 each Individual Research.**

**596-5 to 9 Independent Investigation.**

**597-1 to 3, 598-1 to 3, 599-1 to 3 Thesis.**

## Engineering

**101-9 (3,3,3) Engineering Graphics.** (a) Basic principles of graphic communications. Pictorial projection, sections and conventions, dimensioning auxiliary views, freehand lettering, and sketching. (b) Graphical solution of problems involving the understanding of the space relationships of points, lines, and planes; intersections and developments. (c) Auxiliary views, threads and fasteners, dimensioning. Laboratory must be taken in a,b,c sequence.

**200-9 (3,3,3) Circuit Analysis.** Integrated study of circuits AC, DC, and non-sinusoidal; network theorems and introductory transient analysis. Must be taken in a,b,c sequence. Prerequisite: concurrent enrollment in 201.

**201-3 (1,1,1) Circuit Analysis Laboratory.** Laboratory experiments exemplify the material covered in 200. Prerequisite: concurrent enrollment in 200.

**260-8 (4,4) Engineering Mechanics.** Study of forces, moments, equilibrium equations; structural mechanics, friction, centroids, first and second moments of lines, areas, volumes. Kinematics of particles and rigid bodies, moving



coordinate systems. Dynamics of particles and rigid bodies, using Newton's laws, momentum, and energy methods. Vector algebra and calculus used throughout. Prerequisite: Mathematics 252a.

**300-3 Thermodynamics.** Elements of classical thermodynamics. Laws of thermodynamics and applications to open and closed systems. Introduction to statistical thermodynamics and its relationship to macroscopic properties of matter and transformation of energy. Prerequisites: Mathematics 252b, Physics 211b.

**310-6 (3,3) Physical Electronics.** Study of electron emission, electron and ion ballistics, semi-conductor physics, gaseous collision phenomena; the application of the preceding to transistors, vacuum tubes, gas tubes. Prerequisites: 200, Physics 300.

**311-6 (3,3) Engineering Materials.** Selected topics in the atomic and molecular structure, properties, behavior, testing, and selection of materials. (a) Structure and relationship to macroscopic properties of materials. Physical and mechanical properties of solid state. Strength of materials, static and dynamic effects, stress, strain, and elementary theories of elasticity and visco-elasticity. (b) Complex mechanical stresses, fatigue, creep, and limit analysis. Thermal, electrical, magnetic, chemical, and other properties of materials. Prerequisites: 260a, 300, concurrent enrollment in 312.

**312-2 (1,1) Engineering Materials Laboratory.** Student-planned experiments in measuring the physical, mechanical, electrical, magnetic, chemical, and other properties of materials. Prerequisite: 311.

**363-6 (3,3) Surveying.** (a) Use and care of surveying instruments. Fundamental principles of surveying, computations, land surveying. (b) Field astronomy, route surveying, introduction to photogrammetry, hydrographic surveying, and subsurface surveys. Prerequisite: GSD 114c.

**405-5 (4,1) Generalized Radiation.** A unified course in radiation theory, treating electromagnetic and mechanical radiation. Analysis of wave motion, properties of progressive waves, boundary conditions. Examples taken from radiation in fluids and elastic media, and from electromagnetic radiation. Laboratory. Prerequisite: Physics 305a,b.

**410-8 (4,4) Electron Devices.** Study of active networks utilizing transistors and tubes from both analytic and synthetic points of view. Audio, video, operational, power amplifiers; LC, RC, and relaxation oscillators; power supplies; small-signal, large-signal, switching; wave shaping; analog and digital computing circuits. Prerequisites: 200, 201, 310, concurrent enrollment in 411.

**411-2 (1,1) Electron Devices Laboratory.** Experiments to illustrate the analytic material in 410 and to provide experience in synthesizing active circuits. Prerequisites: 200, 201, 310, concurrent enrollment in 410.

**420-6 (3,3) Transport Phenomena.** Principles and mechanism of energy, mass, and momentum transport. (a) Molecular motion, laminar flow of a continuum, and transport in solids. (b) Turbulent flow, inter-phase transport, radiative transfer, and macroscopic balances of mass, energy, and momentum. Scheduled laboratory projects. Prerequisites: 300, 311.

**423-3 Hybrid Computation.** The simultaneous use of the analog and the digital computer for the solution of engineering problems. Scaling of problems. Block diagrams and logic are stressed. Linear and nonlinear differential equations. Simulation as well as iterative analog computation are covered. Prerequisite: Mathematics 225.

**443-6 (3,3) Engineering Design.** Principles of engineering design. Individual laboratory projects of a research design or development nature to study systems simulation or instrumentation are selected by the student. Prerequisite: 410.

**460-8 (4,4) Engineering Analysis for Decision Making.** (a) Introduction to fundamental concepts and theorems of engineering analysis with emphasis on the theory of linear, dynamic, and integer programming. Network analysis, inventory theory, simplex and revised simplex method, and dual theorem. (b) Introduction to advanced linear programming, nonlinear, probabilistic, and stochastic programming.

**470-12 (4,4,4) Geodesy.** (a) Geometry of the ellipsoid; geodetic systems; geodetic curves; computations of coordinates, distances, and azimuths. (b) Astrogeodetic methods; potential theory, Laplace and Poisson equations, spherical harmonics; gravity potential. (c) Reductions of gravity; introduction to satellite geodesy; world geodetic systems. Prerequisite for a: Mathematics 252b; for b: Mathematics 305b.

**472-3 Digital Computers in Research.** Basic foundations used in operations research. An intensive study in the use of digital computers as related to topics such as probability and statistics, matrices, game theory, Monte Carlo techniques, distribution and scheduling problems, and simulation. Prerequisite: Mathematics 225.

**523-3 Digital Simulation Techniques.**

**524-6 (3,3) Linear and Non-Linear Programming.**

**525-3 Analog and Digital Methods.**

**526-3 Simulation and Data Processing.**

**531-8 (4,4) Operations Analysis and Synthesis.**

**533-3 Program Evaluation and Review Techniques.**

**560-8 (4,4) Automatic Control Theory.**

**590-2 to 4 Readings in Engineering Mathematics.**

## English

**300-4 Principles of English Grammar.** Required for English students. Others should take 391. Credit not allowed for both courses.

**302-12 (4,4,4) Survey of English Literature.** (a) to 1550, (b) 1550-1750, (c) after 1750. May be taken in any sequence.

**309-8 (4,4) Survey of American Literature.** (a) to 1860, (b) since 1860. May be taken in either sequence.

**GSC 313-3 Folklore.**

**320-4 Early Nineteenth-Century Poetry.**

**GSC 333-3 The Bible as Literature.**

**GSC 335-3 Studies in Short Fiction.**

**GSC 337-3 The English Language Heritage.**

**GSC 339-3 Classical Mythology and Its Influence.**

**365-4 Shakespeare.**

**390-3 Advanced Composition.** Expository writing.

**391-3 Usage in Spoken and Written English.** Usage and structure of English. Prerequisite to student teaching, except in English concentrations, which require 300.

**392-3 Professional Writing I.** Introductory course for undergraduates. Prerequisite to 492, but credit for the course does not constitute automatic admission to 492. Prerequisite: consent of instructor.

**400-4 Introduction to English Linguistics.** An introduction to the methods of descriptive linguistics as applied to English: the phonemics, morphemics, and syntax of English. Recommended for those preparing to teach English.

**403-4 The History of the English Language.** A survey of the development of the language from Indo-European to modern English with special emphasis on Middle and Early Modern English changes.

**404-12 (4,4,4) Middle English Literature.** (a) Middle English literature excluding Chaucer; (b) Chaucer: early poems and *Troilus*; (c) Chaucer: *Canterbury Tales*. May be taken separately.

**405-8 (4,4) Descriptive Linguistics.** (a) Phonetics and phonemics, an analysis of language structure from phone to phoneme; (b) morphology and syntax, an analysis of language structure from morpheme to sentence, with emphasis on immediate constituent analysis. May be taken separately. Prerequisite: consent of instructor.

**412-16 (4,4,4,4) English Nondramatic Literature.** (a) 16th century, (b) 17th century, (c) 18th century, (d) 1744-1798. May be taken separately.

**420-8 (4,4) American Poetry.** (a) Trends in American poetry to 1900 with a critical analysis of the achievement of the more important poets. (b) the more important poets since 1900. May be taken separately. Prerequisite: 309a or 309b.

**421-16 (4,4,4,4) English Poetry.** (a) Early Romantics: major emphasis on general background and on Blake, Coleridge, and Wordsworth; (b) later Romantics: emphasis on Byron, Shelley, and Keats, the minor figures; (c) Victorian poets: Tennyson, Browning, Arnold, and other poets of England, 1830-1900; (d) modern British poets. May be taken separately.

**431-12 (4,4,4) Major American Writers.** Significant writers of fiction and non-fictional prose from the Puritans to the 20th century. (a) 1620-1800, (b) 1800-1865 (c) 1865-1915. May be taken separately.

**438-4 Intellectual Backgrounds of American Literature.** The relationship of basic ideas in America to American literature. Prerequisite: 309a or 309b.



- 441-4 The 18th Century Essay.** The informal essay and the literary periodicals—*The Spectator*, *Tatler*, *Guardian*, *Rambler*, *Idler*, and Goldsmith's *Citizen of the World* ("Chinese Letters").
- 442-4 Romantic Prose.** Fiction of Austen Scott, Mary Shelley, Peacock, the Gothic novelists; prose of Lamb, Landor, Hazlitt, DeQuincey; criticism, journals, and letters.
- 443-4 Victorian Prose.** The chief writers of nonfictional prose from the late romantics to 1900. Prerequisite: 302c.
- 447-4 American Humor and Satire.** A consideration of the writers and forms of 19th and 20th century humor.
- 454-12 (4,4,4) English Fiction.** (a) 18th century: Defoe through Jane Austen, (b) Victorian novel: 1830-1900. (c) 20th century. May be taken separately.
- 456-4 Modern Continental Fiction.** Selected major works of European authors such as Mann, Silone, Camus, Kafka, Malraux, Hesse.
- 458-8 (4,4) American Fiction.** (a) The novel in America from its beginnings to the early 20th century. (b) trends and techniques in the American novel and short story since 1914. May be taken separately.
- 460-16 (4,4,4,4) English Drama.** (a) Elizabethan drama: from the beginning of the drama in late Middle Ages through its flowering in such Elizabethan playwrights as Greene, Peele, Kyd, Marlowe, Heywood, Dekker, but excluding Shakespeare; (b) Jacobean drama: the Jacobean and Caroline playwrights: Jonson, Webster, Marston, Middleton, Beaumont and Fletcher, Massinger, Ford, Shirley; (c) Restoration and 18th century drama: after 1660, representative types of plays from Dryden to Sheridan; (d) modern British drama. May be taken separately.
- 464-4 Modern Continental Drama.** The continental drama of Europe since 1870; representative plays of Scandinavia, Russia, Germany, France, Italy, Spain, and Portugal.
- 468-4 American Drama.** The rise of the theater in America, with readings of plays, chiefly modern. Prerequisite: 309a or 309b.
- 471-8 (4,4) Shakespeare.** (a) The plays before 1600, (b) the plays of 1600 and later. Readings on the life of Shakespeare, the theater, and the acting company. May be taken separately.
- 473-4 Milton.** Reading of *Paradise Lost*, *Paradise Regained*, *Samson Agonistes*, minor poems, major treatises.
- 485-4 Problems in the Teaching of English.** Aims, methods, materials, tests, programs, and other aspects of English instruction in the high school.
- 486-2 to 8 Workshop in High School English.** Intensive study in lectures, laboratory, conferences, to arrive at agreement on the teaching of English in high school. Curriculum, materials, methods, aims. Directed by competent authorities in the field.
- 487-2 to 8 Workshop in Junior High School English.** Intensive workshop study in lectures, laboratory, conferences on the teaching of English in junior high school. Curriculum, materials, methods, aims. Directed by competent authorities in the field.
- 488-9 (3,3,3) Methods of Teaching English as a Foreign Language.** (a) Classroom techniques, (b) laboratory methods, (c) preparation of materials. Restricted to English as a foreign language and must be taken in a,b,c sequence.
- 492-4 Professional Writing II.** Must be taken in a,b sequence. Prerequisite: 392 or consent of instructor.
- 495-8 (4,4) Literary Criticism.** (a) History of criticism: ideas and techniques from Aristotle to the end of the 19th century, (b) modern criticism: recent critics and critical attitudes, and practice in writing criticism.
- 499-2 to 6 Readings in English.** For English students only. Departmental approval required. No more than 4 hours may be taken in any one quarter.
- 500-4 Materials and Methods of Research in English.**
- 501-4 Old English Grammar.**
- 502-4 Beowulf.**
- 504-4 Advanced English Syntax.**
- 505-4 Contrastive Linguistic Structures.**
- 508-4 or 8 Studies in Chaucer.**
- 509-4 or 8 Studies in Middle English Literature.**
- 511-4 or 8 Studies in the Renaissance.**
- 513-4 or 8 Studies in 17th Century Literature.**
- 514-4 or 8 Studies in Restoration and 18th Century Literature.**
- 519-4 or 8 Studies in Contemporary British Literature.**



520-4 or 8 Studies in Romantic Writers.  
521-4 or 8 Studies in Victorian Poetry.  
524-4 or 8 Studies in the Metaphysical Poets.  
531-4 or 8 Studies in American Colonial Period.  
532-4 or 8 Studies in American Transcendentalism.  
534-4 or 8 Studies in Early 19th Century American Writers.  
536-4 or 8 Studies in Later 19th Century American Writers.  
537-4 or 8 Studies in 20th Century American Writers.  
538-4 or 8 Problems in American Literature.  
540-4 Studies in Linguistics. (Historical and Dialectal.)  
543-4 or 8 Studies in Victorian Nonfiction Prose.  
555-4 or 8 Studies in the Victorian Novel.  
560-4 or 8 Studies in Renaissance Drama.  
566-4 or 8 Studies in Shakespeare.  
569-4 Seminar in Special Problems of English as a Foreign Language.  
579-16 (4 or 8, 4 or 8) Studies in Modern Literature.  
580-4 Traditional Themes.  
581-12 (4,4,4) Problems in High School English.  
585-2 to 8 Teaching College Composition.  
587-4 Literature for Young People.  
597-2 to 4 Readings in Linguistics.  
598-1 to 9 Independent Review of English and American Literature.  
599-2 to 9 Thesis.

### Experiment in Higher Education

101a,b,c,d-1 to 15 per quarter, 201a,b,c,d-1 to 15 per quarter University Studies. General education course series for the E.H.E. designed to provide General Studies equivalence credits on the first and second levels. Prerequisite for 201: 101a,b,c,d.

### Finance

320-4 **Corporation Finance.** A study of the principal duties of corporate financial officers and the problems of administrative financial management of business. Topics include planning, budgeting and control, external sources of capital. Prerequisites: Accounting 230, 231; Economics 200, 201.  
420-4 **Problems in Corporation Finance.** Application of principles of finance to specific cases. Development of analytical ability and fuller comprehension of the nature of financial problems as encountered in business and industry by combining specific cases and collateral readings. Prerequisite: 320.  
423-4 **Commercial Banking Operations.** The administration and operation of a commercial bank, including organization structure and asset management. Major problems are analyzed through the study of cases. Prerequisite: 420.  
424-4 **Financial Institutions.** A study of the evolution, functions, and practices of the many types of financial intermediaries especially which have come into prominence since World War II and particular attention is given to commerce and government. Prerequisite: 420.  
425-4 **Investments.** A survey of the investment field in theory and practice. Study of the state and federal agencies concerned with regulation of the issuance and exchange of securities in the interest of the investing public. The analysis of the particular types of investment securities and the bases for investment decisions and the management of investment portfolios. Prerequisite: 420.  
520-4 **Finance.**  
523-4 **Financial Management.**  
528-4 **Seminar in Finance.**

### Foreign Languages

The student who has completed one year of foreign language in high school usually begins with the first quarter of the first year course which is in General Studies. The student who has completed two years of high school foreign language usually begins with the intermediate course.

Students taking work in any first year college foreign language series should note that the first two terms are not counted as electives toward graduation unless the third term is also completed.

### *General Foreign Language*

**399-3 to 9 Readings.** Readings in selected works of representative writers. Offered in French, Spanish, and German. May be taken for one, two, or three quarters. Primarily for students with no foreign language concentration, but may be taken for credit in foreign language concentration with consent.

**435-4 to 8 Workshop in Elementary School Foreign Language Instruction.** Designed to assist elementary school teachers in integrating foreign languages into their teaching program as well as to encourage high school teachers to introduce or supervise foreign languages at the elementary school level. To count as education or foreign languages. Prerequisite: basic language credit.

**486-8 (4,4) Materials and Methods for Teaching Foreign Languages.** Application of language learning principles to classroom procedures at different levels. Theory and practice of the audio-lingual approach, the language lab, applied linguistics. Required for all majors intending to teach foreign languages. Prerequisite: one quarter of any 300-level course, or consent.

### *French*

**123-3 (1,1,1) French Conversation.** Conversation and oral drill taken with GSD 123 by students who wish additional oral training; elected only by students enrolled in GSD 123. May be taken separately.

**130-10 Intensive French.** Intensive training in the four language skills: speaking, aural understanding, reading, and writing. Must be taken in conjunction with 230 to satisfy foreign language requirements. Prerequisite: Open to Dean's College students (or consent of Foreign Language Adviser) with no previous training in French or with not more than two years of high school French or by consent of instructor.

**200-4 French Review.** Review and practice of basic structures to develop oral fluency. Open only to students with two or three years of high school French who need more training preliminary to entering the intermediate (201) college sequence.

**201-9 (3,3,3) Intermediate French.** Composition, oral practice, rapid reading of modern authors with special attention to the role of French culture in world civilization. Must be taken in a,b,c sequence. Prerequisite: GSD 123 or two years of high school French, or equivalent.

**220-6 (2,2,2) Intermediate French Conversation.** Development of oral skill on the intermediate level. Offered for three quarters at 2 hours per quarter; may be taken for credit each time. Prerequisite: 201c or concurrent registration in any quarter for 201.

**230-20 (10,10) Intermediate Intensive French.** Continuation of 130. Vocabulary building, reading of modern French authors, extensive oral discussion, and stress on the role of French culture in modern civilization. Prerequisite: 130 or consent of instructor.

**301-12 (4,4,4) French Literature from the 18th Century of the Contemporary Period.** (a) Montesquieu, Voltaire, Diderot, Rousseau, and others, with reference to the social, political, and philosophic environment of the 18th century. (b) 19th century romanticism, realism, and naturalism. (c) Representative works of the 20th century with special emphasis on the novel and drama. May be taken separately. Prerequisite: 201 and one quarter of 220, or consent.

**311-9 (3,3,3) French Culture and Civilization.** Analysis of significant aspects of French culture designed to improve intercultural understanding and to develop language skills. Oral discussions, readings, written reports, and laboratory practice. Prerequisite: 201 and one quarter of 220, or consent. May be taken separately.

**338-12 (4,4,4) French Literature from the Middle Ages Through the 17th Century.** (a) French literature from *La Chanson De Roland* to Francois Villon with special reference to the social, political, and cultural development of the Middle Ages. (b) Representative works of the Renaissance: Rabelais, Montaigne, Marot, Ronsard, and others. (c) Corneille, Racine, Moliere, Pascal and other writers of the 17th century with reference to the political and



social environment of the period. May be taken separately. Prerequisite: 201 and one-quarter of 220, or consent.

**351-6 (3,3) Advanced French Conversation and Composition.** (a) Oral work of a practical nature for advanced students. Prerequisite: 201 and one quarter of 220, or consent. (b) Rapid grammar review, daily writing practice, controlled composition. Must be taken in a,b sequence.

**451-6 (2,2,2) Seminar.** Integration of the specialized major courses and the development of a comprehensive view of the major field in terms of its relationship to the growth of Western Civilization. Required of all seniors with French concentration.

**461-4 French Stylistics.** Study of writing style in French and its application to the development of skill in written expression. For those who wish to do advanced work in the principles of French grammar and composition. Prerequisite: 9 hours of 300-level courses, or consent.

**500-2 Seminar in Contemporary French Literature.**

**501-2 to 6 Seminar on a Selected French Author.**

**507-3 A Study of Romanticism.**

**510-4 19th Century Realism.**

**520-4 Graduate Composition and Diction.**

**544-4 French Language and Culture.**

**545-3 Applied Linguistics and Remedial Phonetics.**

**546-3 Professional Preparation.**

### *German*

**126-3 (1,1,1) German Conversation.** Conversation and oral drill taken with GSD 126 by students who wish additional oral training: elected only by students enrolled in GSD 126. May be taken separately.

**201-9 (3,3,3) Intermediate German.** Composition, oral practice, rapid reading of modern authors with special attention to the role of German culture in world civilization. Must be taken in a,b,c sequence. Prerequisite: GSD 126 or two years of high school German, or equivalent.

**220-6 (2,2,2) Intermediate German Conversation.** Development of oral skill on the intermediate level. Offered for three quarters at 2 hours per quarter; may be taken for credit each time. Prerequisite: 201c or concurrent registration in any quarter of 201.

**251-4 Scientific German.** Study of vocabulary and sentence construction as commonly found in German scientific writings. Prerequisite: one year of college German, or equivalent.

**311-9 (3,3,3) German Culture and Civilization.** Analysis of significant aspects of German culture designed to improve intercultural understanding and to develop language skills. Oral discussions, readings, written reports, and laboratory practice. May be taken separately. Prerequisites: 201, one quarter of 220.

**313-12 (4,4,4) German Literature Before Romanticism.** (a) The Old High German and Middle High German periods. (b) From the Ackermann in Bohmen to Johann Christian Gunther. (c) German literature from 1700 to the death of Schiller. May be taken separately. Prerequisites: 201, 220-2.

**316-12 (4,4,4) German Literature from Romanticism to Modern Times.** (a) Introduction to the background, personalities and works of the period from 1798 to Heine. (b) The leading 19th century realists from Droste-Hulshoff to Fontane including the novel and drama of the period. (c) German literary masterpieces from naturalism to the present. May be taken separately. Prerequisites: 201, 220-2.

**351-6 (3,3) Advanced German Conversation and Composition.** (a) Oral work of a practical nature for advanced students. Prerequisites: 201 and one quarter of 220, or consent. (b) Rapid grammar review, daily writing practice, controlled composition. Must be taken in a,b sequence.

**401-4 Faust.** Analysis of both parts of Goethe's masterpiece, its background, meaning, and impact on world literature together with a general survey of the life and times of the author. Prerequisites: 201, one quarter of 220.

**408-4 German Civilization.** Intensive study of the German-speaking areas of the world, with emphasis on the anthropological and sociological aspects of their respective cultures (Austrian, German, Swiss, "Reichs-deutsch," etc.); lectures, reports. Prerequisite: senior standing in German language.

**413-3 German Linguistics.** Introduction to comparative German linguistics



tracing relationships among German languages on the basis of phonology, morphology, and syntax. Prerequisite: senior standing in German language.

**451-6 (2,2,2) Seminar.** Integration of the specialized major courses and the development of a comprehensive view of the major field in terms of its relationship to the growth of Western Civilization.

**500-2 Seminar in Contemporary Literature.**

**501-2 Seminar on a Selected German Author.**

**506-2 Romanticism I.**

**507-2 Romanticism II.**

**509-4 (2,2) Old High German.**

**512-3 19th Century German Novel.**

**513-3 Twentieth Century German Novel.**

### *Italian*

**144-3 (1,1,1) Italian Conversation.** Taken with GSD 144 by students who wish additional oral training; elected only by students enrolled in GSD 144. May be taken separately.

**201-9 (3,3,3) Intermediate Italian.** Development of listening, speaking, reading and writing skills on the intermediate level, with special attention to the role of Italian culture in world civilization. Prerequisite: GSD 144 or two years of high school Italian, or equivalent.

**220-6 (2,2,2) Intermediate Italian Conversation.** Development of oral skill on an intermediate level. Prerequisite: Italian 201c or concurrent registration in any quarter of 201.

### *Russian*

**136-3 (1,1,1) Russian Conversation.** Conversation and oral drill taken with GSD 136 by students who wish additional oral training; elected only by students enrolled in GSD 136. May be taken separately.

**201-9 (3,3,3) Intermediate Russian.** Composition, oral practice, rapid reading of modern authors with special attention to the role of Russian culture in world civilization. Must be taken in a,b,c sequence. Prerequisite: GSD 136 or two years of high school Russian, or equivalent.

**220-6 (2,2,2) Intermediate Russian Conversation.** Development of oral skill on the intermediate level. Offered for three quarters at 2 hours per quarter; may be taken for credit each time. Prerequisite: 201c or concurrent registration in any quarter of 201.

### *Spanish*

**140-3 (1,1,1) Spanish Conversation.** Conversation and oral drill taken with GSD 140 by students who wish additional oral training; elected only by students enrolled in GSD 140. May be taken separately.

**201-9 (3,3,3) Intermediate Spanish.** Composition, oral practice, rapid reading of modern authors with special attention to the role of Spanish culture in world civilization. Must be taken in a,b,c sequence. Prerequisite: GSD 140 or two years of high school Spanish, or equivalent.

**220-6 (2,2,2) Intermediate Spanish Conversation.** Development of oral skill on the intermediate level. Offered for three quarters at 2 hours per quarter; may be taken for credit each time. Prerequisite: 201c or concurrent registration in any quarter of 201.

**301-12 (4,4,4) Spanish Literature from the Medieval Period Through Romanticism.** (a) Spanish literature from the 12th to the 15th century; the epic, *El-Cantar Del Cid*, ballads, lyric poetry, chronicles and other prose works. (b) Representative works of the 16th and 17th centuries: Cervantes, Tirso de Molina, Lope de Vega, and others. (c) Romanticism in Spanish literature during the 18th and 19th centuries: Espronceda, Duque de Rivas, Jose Zorrilla, and others. May be taken separately. Prerequisites: 201, one quarter of 220.

**304-8 (4,4) Modern Spanish Literature.** (a) Spanish literature of the 19th century as influenced by trends of European thought of the period: Galdos, Brazan, Benavente, and others. (b) Spanish literature of the 20th century with emphasis on the novel, essay, and poetry: Unamuno, Ortega y Gasset, Garcia Lorca, and others. May be taken separately. Prerequisite: 201, one quarter of 220.

**306-4 Latin American Literature.** Representative writers in Latin-American Literature from the Colonial to the Contemporary period with emphasis on the novel, essay, and poetry. Prerequisites: 201, one quarter of 220.

**311-9 (3,3,3) Spanish Culture and Civilization.** Analysis of significant aspects of Spanish culture designed to improve intercultural understanding and to develop language skills. Oral discussions, readings, written reports, and laboratory practice. May be taken separately. Prerequisites: 201, one quarter of 220.

**351-6 (3,3) Advanced Spanish Conversation and Composition.** (a) Oral work of a practical nature for advanced students. Prerequisite: 201 and one quarter of 220, or consent. (b) Rapid grammar review, daily writing practice, controlled composition. Must be taken in a,b sequence.

**451-6 (2,2,2) Spanish Seminar.** Integration of the specialized major courses and development of a comprehensive view of the major field in terms of its relationships to the growth of Western Civilization.

**461-4 Spanish Stylistics.** Study of writing style in Spanish and its application to the development of skill in written expression. For those who wish to do advanced work in the principles of Spanish grammar and composition. Prerequisite: 9 hours of 300-level courses.

**500-2 Seminar in Latin American Fiction.**

**501-2 Seminar on a Selected Spanish Author.**

**505-3 The Picaresque Novel.**

**520-3 Seminar in Syntax.**

**525-3 The Spanish Ballads.**

**535-3 Mexican Essayists of the 19th Century.**

### *Romance Philology*

**410-4 Romance Philology I.** Survey of phonology, morphology, and syntax changes in Romance languages in general; special attention to the developments in French and Spanish for students with concentration in these fields. Prerequisite: senior standing in Romance language.

### **General Business Administration**

**140-4 Introduction to Business.** An overview of the basic nature of business in an essentially market-disciplined economic system. Emphasis on the interdisciplinary nature of business and the broad administrative principles governing organized human endeavor. Introduction to business and economic terminology and to the case method of developing analytical ability.

**340-4 Organization and Decision-Making.** Development of understanding of organizational behavior and decision theory and of analytical skills through case analysis and discussion. Examination of processes of group formation and development, conformity and direction, influence and decision-making, problem solving, role specialization and differentiation, status and social power distribution, satisfaction, and goal internalization and commitment. Prerequisites: 140, GSB 201a,c.

**341-4 Organizational Problems.** Application of the concepts, understanding, and techniques to major categories of recurring organizational problems faced by complex business units and described in case situations. Features such as position specifications, authority structures, territorial imperatives, performance measurements, and procedures involving compensation, communication, and employee selection and promotion. Designing organizational patterns to meet specific situational needs. Prerequisite: 340.

**342-4 Contracts—Agency Law.** Study and discussion of the terminology, definitions, and principles of contract law applicable to the contractive problems in the operation of a business, including the relevant provisions of the uniform commercial code. The application of the principles of agency law by the entrepreneur in operating his firm, and his legal liability to his agency and third parties with whom he deals.

**440-4 The Legal Environment of Business.** Varied facets of the external and internal legal environments within which business firms operate. Use of cases and readings which describe and analyze the legal framework supporting, facilitating, and guiding everyday business decisions. Common law, statutory law, administrative law as they affect business environment. Prerequisite: 140.



**441-3 Business Policy.** Development of a top-management view leading to the formulation of general policies to be followed by the organization. Determination of objectives, the development of plans for their achievement, organizing administrative personnel to carry them out, implementation of programs, measurement of results, and the reappraisal of objectives, plans, and action-patterns in the light of evolving situations. Prerequisites: 341, 440.

**511-4 Accounting Theory.**

**526-4 Managerial Economics.**

**539-4 Seminar in Finance.**

**540-4 Concepts of Managerial Performance.**

**541-4 Business and Its Legal Environment.**

**542-4 History and Theory of Management.**

**543-4 The Administrator.**

**544-4 The Methodology of Business Research.**

**545-4 The Social Framework of Business.**

**548-4 Seminar in Managerial Performance.**

**549-4 Corporate Policy Formulation and Administration.**

**559-4 Seminar in Marketing.**

**599-2 to 9 Thesis.**

## Geography

**302-4 Introduction to Physical Geography.** A study of the earth's physical surface, world distribution patterns of the physical elements, their relationship to each other, and their importance to man. Field trip and laboratory work.

**304-4 Introduction to Economic Geography.** Study of the spatial distribution and interaction of economic activities. Introduction to locational theory. Prerequisite: GSB 203-4.

**306-4 Introduction to Cultural Geography.** An overview of the geographic viewpoint in the study of the human occupancy of the earth. Aspects of population, settlement, and political geography, and a generalized survey of major world cultural areas.

**308-3 Introduction to Geographic Methods.** Designed to introduce the geographic methods of integrating physical, economic, and cultural elements in the study of areas. Cartographic and quantitative techniques utilized.

**310-6 (3,3) Introduction to Cartographic Methods.** Properties of maps and air photos, their uses and sources; map symbols, map projections, and map construction. Introduction to the use of quantitative techniques as applied in geographic study. Laboratory.

**GSA 312-3 Conservation of Natural Resources.**

**GSA 330-3 Weather.**

**GSA 331-3 Climate.**

**343-4 Teaching of Geography.** Presentation and evaluation of methods of teaching geography. Emphasis upon geographic literature, illustrative materials, and teaching devices suitable to particular age levels.

**GSB 351a-3 Geographic and Cultural Background of Developing Africa.**

**GSB 354-3 Industrial Economic Geography.**

**402-10 (4,3,3) Advanced Physical Geography I.** Deals with one or more of the following: land forms, climate, soil, and water; depending on, and varying with, interests of the instructors. Thus, a student may register more than one time. Emphasis toward familiarizing the student with techniques of analysis and developing concepts and principles that underlie understanding of the phenomena and their geographic significance. Prerequisite: 302 or GSA 110.

**403-7 (4,3) Advanced Physical Geography II.** Content drawn from same broad range of topics as 402. To be alternated with 402 to enable student to specialize further in physical geography. Prerequisite: 302 or consent.

**404-10 (4,3,3) Advanced Economic Geography I.** Deals with one or more of the following: transportation, manufacturing, agriculture, resources, trade and urban geography; depending on, and varying with, interests of instructors. Thus, a student may register more than one time. Emphasis toward familiarizing the student with techniques of analysis, and at developing concepts and principles that underlie understanding of the phenomena and their geographic significance. Prerequisite: 302 or consent.

**405-7 (4,3) Advanced Economic Geography II.** Content drawn from same broad range of topics as 404. To be alternated with 404 to enable student to specialize further in economic geography. Prerequisite: 302 or consent.



**406-7 (4,3) Advanced Cultural Geography I.** Deals with one or more of the following: population, settlement, ethnic characteristics, political factors; depending on, and varying with, interests of the instructors. Thus, a student may register more than one time. Emphasis toward familiarizing the student with techniques of analysis, and developing concepts and principles that underlie understanding of the phenomena and their geographic significance. Prerequisite: 306.

**407-7 (4,3) Advanced Cultural Geography II.** Content drawn from same broad range of topics as 406. To be alternated with 406 to enable student to specialize further in cultural geography. Prerequisite: 302 or consent.

**410-8 Quantitative Methods in Geography.** Statistical and computer research techniques for geographers.

**416-8 (4,4) Advanced Cartography.** Instruction and practice in the techniques of map-making and problems in map reproduction. Laboratory. Prerequisite: 310.

**417-3 Air Photo Interpretation.** Techniques in the use of air photos as source material for research in the physical and social sciences. Laboratory. Prerequisite: 310a or consent of instructor.

**424-4 Regional Problems in Conservation.** The distribution, use, and inter-relationship of the resources of the U.S. and the conservation techniques applied to them.

**426-12 (4,4,4) Photogrammetry.**

**450-3 to 15 Travel Study Course.** Enrichment through travel, supervised study, and readings on areas visited.

**461-7 (4,3) Advanced Regional Geography: Anglo-America.** Deals geographically with present-day U.S. and Canada. (a) A general survey of the area, open to students without a concentration. (b) Investigates specific topics in depth, for students with a concentration in geography.

**462-7 (4,3) Advanced Regional Geography: Europe.** (See 461.)

**463-7 (4,3) Advanced Regional Geography: Mediterranean Lands and South-western Asia.** (See 461.)

**464-7 (4,3) Advanced Regional Geography: Soviet World.** (See 461.)

**465-7 (4,3) Advanced Regional Geography: Africa.** (See 461.)

**466-7 (4,3) Advanced Regional Geography: Asia.** (See 461.)

**467-7 (4,3) Advanced Regional Geography: Latin America.** (See 461.)

**468-7 (4,3) Advanced Regional Geography: Oceania.** (See 461.)

**470-16 to 20 (4,4,4,4 to 8) Urban Planning.** (a) Planning concepts and methods, (b) planning administration and the planning function in public process, (c) field problems, (e) planning and public administration internship. Parts c and e may be taken concurrently.

**471-8 (4,4) Regional Planning.** Area and regional development, theory, and practices.

**475-4 to 8 Methods of Field Geography.** Application of geographic field techniques.

**490-1 to 2 (8 total) Tutorial in Geography.** Individual and small group conferences with staff members to examine geographic concepts.

**500-4 Geographic Techniques I.**

**501-4 Geographic Techniques II.**

**511-4 Philosophy of Geography.**

**515-4 to 6 Field Course.**

**520-2 to 8 Seminar in Physical Geography.**

**521-2 to 8 Seminar in Economic Geography.**

**522-2 to 12 Seminar in Regional Geography.**

**523-4 Seminar in Cartography.**

**524-2 to 8 Seminar in Cultural Geography.**

**527-2 to 8 Seminar in Urban and Regional Planning.**

**530-2 to 10 Independent Studies in Geography.**

**599-2 to 9 Thesis.**

## Government

**200-4 Introduction to Political Science.** A general introduction to the study of politics with emphasis on contemporary theories for ordering political systems, the institutions of government and their processes, and the social roots of political behavior.

**GSB 318-6 (3,3) American State and Local Government.**

**320-4 Introduction to Public Administration.** A study of principles and problems of administrative organization and co-ordination, personnel and fiscal management, regulatory administration, and public responsibilities of administrative agencies. Prerequisite: GSB 203a.

**321-1 to 6 Readings in Government.** Prerequisite: consent of instructor.

**330-2 Illinois Government.** The development and functioning of government in Illinois.

**340-12 (4,4,4) American Political Institutions.** (a) The American Chief Executive. A review of the legal, political, and administrative responsibilities of the chief executive in national, state, and local political units in the United States, with emphasis on the national level. (b) The American Legislative Process. An investigation of the legislative organization and processes in Congress and state legislatures. (c) The American Judicial System. A survey of the nature, purposes, and limitations of law as administered and interpreted by courts. The development, organization, and operation of the American judicial system with emphasis on the federal level. Prerequisite: GSB 203a.

**345-8 (4,4) American Political Parties and Interest Groups.** (a) A study of the historical development of American political parties. (b) An analysis of contemporary American political parties and interest groups. Prerequisite: GSB 203a.

**348-4 Intergovernmental Relations in the United States.** An introduction to the relationships—political, legal, fiscal, administrative, etc.—between and/or among the national, state, and local governments. Prerequisite: GSB 203a.

**350-12 (4,4,4) The Political Systems of Major European States.** (a) A comparative study of the British and German political systems. (b) An analysis of the French and Italian political systems. (c) An examination of the organization and operation of the Soviet political system. Prerequisite: 200.

**355-16 (4,4,4,4) Political Systems of Major Non-European States.** (a) Latin America. An examination of the political systems of five representative states: Mexico, Brazil, Ecuador, Cuba, and Uruguay. (b) Asia. An analysis of four major political systems: China, Japan, India, and Indonesia. (c) Africa. A survey of African political systems. (d) Near and Middle East. A study of the major nation-states.

**370-4 Introduction to International Relations.** The nation-state system, diplomatic practice, problems of national interest, power, ideology, and conflict; strategy and instruments of foreign policy. Prerequisite: GSB 203a.

**385-4 Introduction to Political Theory.** An introduction to the basic concepts and topics of political theory. Prerequisite: 200.

**410-8 Quantitative Methods in Political Science.** Statistical and computer research techniques for political scientists.

**421-4 Public Personnel Administration.** An analysis of problems of recruiting, retaining, and developing public service employees and related topics such as political neutrality, motivation, security, and manpower planning. Prerequisite: 320.

**422-4 Public Financial Administration.** A survey of the problems encountered in the administration of public financial resources, including budgeting, accounting, auditing, and fiscal and monetary policy. Prerequisite: 320.

**423-4 Comparative Public Administration.** An introduction to the administrative organization and practice of selected Western and non-Western nation states. Prerequisite: 320.

**424-4 Administrative Law.** A study of the principles of administrative law in the United States with special emphasis on the law of public officers and on legal procedure for the enforcement of bureaucratic responsibility. Prerequisite: 320.

**429-4 Topics in Public Administration.** An intensive study of an administrative problem or process. Primarily for government students with advanced standing. Prerequisite: 320.

**445-12 (4,4,4) American Political Behavior.** (a) American Voting Behavior. Survey of studies of American elections emphasizing the psychological, sociological, and political-legal bases of voting behavior. (b) Personality and Politics in the United States. A survey of research findings concerning the relationship of psychological and sociological characteristics to the political process. (c) Public Opinion, Propaganda, and the Mass Media in the United States. A survey of research findings concerning the relationship of com-



munications content and communications media to the political process. Prerequisite: GSB 203a.

**449-4 Topics in American Politics.** An intensive examination of one significant facet of the American political system. Primarily for government students already having had considerable course work in the area. Prerequisite: GSB 203a.

**456-4 Topics in Comparative Politics.** A selective and detailed study of a major question of relevance to students of comparative politics. Prerequisite: 350 or 355.

**472-8 (4,4) International Organizations.** (a) General International Organizations. Description and analysis of both past and contemporary general international organizations, with special emphasis on the principles, structure, decision-making processes, operations, and problems of the United Nations and its related agencies. (b) Regional International Organizations. Examination and comparative analysis of the foundations, nature, and functioning of contemporary regional organizations, their relationship to the United Nations System, and their role in world politics. Attention is focused on such bodies as NATO, the Warsaw Pact, the OAS, SEATO, the Commonwealth, the Arab League, the Organization for African Unity, the European Communities, Comecon, and Lafta. Prerequisite: 200.

**473-12 (4,4,4,4) Foreign Politics of Major Powers.** (a) American Foreign Policy. Institutional framework and decision-making processes of American foreign policy; idealist and realist schools of thought; the national interest in historic and geographic perspective. (b) Soviet Foreign Policy. Analysis of objective strategy, and tactics of Soviet foreign policy, with emphasis on the combination of conventional and unconventional instruments including role of Communist parties. (c) Foreign Policies of Western European States. Analysis of foreign policies of the major European powers, with emphasis on structural changes incident to the two world wars and the dissolution of colonial empires. Prerequisite: 370.

**479-4 Topics in International Relations.** A detailed study of a selected topic. Primarily for government students with advanced standing. Prerequisite: 370.

**481-8 (4,4) Descriptive Political Theory.** (a) Contemporary Systematic Political Theory. Intensive study of major contemporary attempts to devise a general systems theory of politics. (b) Contemporary Political Analysis. The character of scientific inquiry as it relates to the discipline of political science. Prerequisite: 200.

**484-12 (4,4,4) History of Western Political Theories.** Various topics are employed as analytical tools in the chronologically successive examination of certain theories in the history of Western political thought. (a) The theories of Plato, Aristotle, the early and middle Stoa, Cicero, Augustine, and Aquinas. (b) The theories of Machiavelli, Bodin, Hobbes, Locke, Montesquieu, Rousseau, Burke, and Bentham. (c) The theories of Publius, Hegel, Comte, Mill, Marx, Green, Kropotkin, Sorel, the Fabians, and John Dewey. Prerequisite: 385.

**486-3 Workshop on Teaching the American Political Heritage.** The major concepts and topics of the American political heritage including myth, symbol, signal, natural rights, limited government, libertarianism, totalitarianism, and socialism; and methodological tools which aid communication of those topics to elementary and secondary students in palatable and comprehensive form.

**487-6 (3,3) American Political Theory.** A chronological examination of leading American political thinkers. The concepts and topics of political thought in the United States are examined in relation to both the political milieu of their given periods as well as the manner in which they contributed to a developing policy. (a) From Puritan thought to Alexis de Tocqueville. (b) From Calhoun to the present. Prerequisite: 385.

**489-4 Topics in Political Theory.** A comprehensive examination of the works of one major political thinker and the treatment of one major topic or idea by selected political thinkers. Primarily for government students with advanced standing. Prerequisite: 385.

**495-12 (4,4,4) Constitutional Law.** (a) A study of the development of American constitutional law chiefly through judicial opinion. Emphasis is placed on the analysis of federalism and the distribution of powers. (b) A study of government power and the rights of property. Special attention is directed to tension between the public welfare and private rights, the extent of government power to regulate property rights, and state versus federal power over commerce and taxation. (c) A study of the nature and extent of



civil rights and liberties in the United States. Special attention is given to freedom of speech, press, and association, separation of church and state, equal protection of the laws, and the rights of persons accused of crime. Prerequisite: GSB 203a.

**496-4 American Judicial Behavior.** Introduction to the methods, goals, and limitations of behavioral research on American courts and judges. Attention given to the impact of technology on the judicial process. Prerequisite: 340c.

**499-4 Scope and Method of Political Science.** Introduction to major schools of thought and basic research techniques in political science. Prerequisites: 200, 20 upper division hours in government.

**521-1 to 12 Readings in Government.**

**529-2 to 9 Seminar in Public Administration.**

**545-2 to 9 Seminar in American Politics.**

**555-2 to 9 Seminar in Comparative Politics.**

**575-2 to 9 Seminar in International Relations.**

**585-2 to 9 Seminar in Political Theory.**

**590-2 to 9 Seminar in American Public Law.**

### Health Education

**205-4 Principles and Foundations of Health Education.** Introduction to philosophy and history of health education as well as functions of the school health department and voluntary agency interaction in the health education program. Prerequisite for all 300-level courses and above.

**300-3 Communicable Disease.** A study of the communicable diseases with emphasis on control and principles of prevention, and application of these principles to the individual school and community.

**302-4 Driver Education and Training.** Preparation of the college student for teaching driver education and training in the secondary school. Prerequisite: a valid driver's license.

**313s-4 Introduction to Safety Education.** Preparation for safety education in the public schools. Concerned with safety as a social problem, development of safety skills, accident causes, teacher liability, and research in the field.

**334s-4 First Aid.** Red Cross First Aid Course with lectures, demonstrations, and practical applications. Red Cross Instructor's Certificate given.

**350-4 Methods and Materials in Elementary Health Education.** Designed to show the prospective teacher fundamental processes, techniques, and material aids involved in elementary school health teaching.

**355-4 Introduction to Public Health.** Philosophy, organization, administration, and functions of federal, state, and local, official and voluntary public health agencies. Periodic field trips involved.

**400-4 Health Appraisal of School Children.**

**415s-4 Workshop in Driver Education and Traffic Safety.**

**443s-4 Methods and Materials in Driver Education.**

**460-4 Methods and Materials in Secondary School Health Education.**

**461-4 Workshop in Health Education.**

**470-3 Workshop in Sex Education for Elementary Teachers.**

**471-4 Organization and Administration of School Health.**

**480s-4 Workshop in Safety Education.**

**525s-4 Organization, Administration, and Supervision of Safety Education.**

### History

**100-3 Survey of Ancient Civilization.** Ancient Period to 1000 A.D.

**GSB 101-8 (4,4) Survey of Western Tradition.**

**102-4 Survey of Asian Civilization.** An introduction to the history of East Asia from the earliest times to the twentieth century. Emphasis on China and Japan.

**GSB 300-9 (3,3,3) History of the United States.**

**304-6 (3,3) History of the Ancient Near East.** (a) Earliest times to 1200 B.C. (b) 1200 B.C. to 330 B.C.

**306-9 (3,3,3) History of Rome.** (a) The Republic. (b) The Western Empire. (c) The Eastern Empire. Prerequisite: 100 or equivalent.

**309-4 The Negro in America.** The role of the Negro in America from the 17th century to the present with emphasis on the period since 1865.

**312-4 Central Europe in the Nineteenth Century.** An analysis of the rise of nationalism with emphasis on Germany and Italy and of the problems of the Austro-Hungarian monarchy. Prerequisites: GSB 101b,c.

**332-9 (3,3,3) Medieval History.** (a) Early Middle Ages, 500-1000. (b) High Middle Ages, 1000-1300. (c) Late Middle Ages, 1300-1500. Prerequisite: sophomore standing.

**338-6 (3,3) History of Greece.** (a) Hellenic history. (b) 401-133 B.C. Prerequisite: sophomore standing.

**341-9 (3,3,3) History of Religion in Western Civilization.** A study of religious institutions, ideas, and practices in Western civilization and the relationship to society. (a) Ancient period to 12th century. (b) 12th century to present in Europe. (c) United States. May be taken separately or in any sequence. Prerequisite: GSB 101b,c.

**352-9 (3,3,3) History of Latin America.** (a) Colonial Latin America, (b) Independent Latin America, (c) Latin America in World Affairs. May be taken separately or in any sequence.

**365-4 History of Chinese Civilization.** A study of the march of Chinese civilization from prehistoric times to the present, stressing social structure, government institutions, and intellectual movements.

**367-6 (3,3) History of the Far East.** (a) Introduction to 1800, (b) 1800-1945. May be taken separately or in either sequence.

**GSB 369-3 The Contemporary Far East.**

**372-9 (3,3,3) History of Russia.** (a) 900-1801—The Early Empire. (b) 1801-1914—The Late Empire. (c) Since 1914—War, Revolution, and Soviet Russia.

**GSB 380-6 (3,3) East Europe.**

**GSB 382-6 (3,3) History of Great Britain Since 1782.**

**401-4 History of the South.** (a) The Old South. (b) The New South. An intensive study of the social, economic, political, and cultural developments of the South.

**405-3 The American Civil War.** Emphasis upon the clash of national and sectional interests; economic, political, and military aspects of the conflict. Prerequisite: GSB 300b or consent of instructor.

**410-2 to 5 Special Readings in History.** Supervised reading for students with sufficient background. Registration by special permission only. Offered on demand.

**412-9 (3,3,3) Intellectual History of the U.S.** (a) 17th, 18th centuries, (b) 19th century, (c) 20th century. Prerequisite: GSB 300a,b,c.

**415-12 (4,4,4) Early Modern Europe.** (a) Renaissance. (b) Reformation. (c) Age of Absolution and Enlightenment. Prerequisite: GSB 101b,c.

**417-16 (4,4,4,4) Advanced English History.** (a) The Empire-Commonwealth. (b) Constitutional History. (c) English Culture in the Age of American Colonization. (d) Tudor England.

**420-4 The French Revolution.** A sketch of the passing of feudalism in France, the background and development of the revolutionary movement, and the Napoleonic period.

**425-6 (3,3) American Colonial History.** Founding of the American colonies and the development of their institutions to 1763.

**426-4 The Revolution and the Constitution.** A study of the conflicting forces which produced the American Revolution, led to the creation of the federal union, and shaped the early republic.

**428-4 The Age of Jackson.** Origins, background, and development of that phase of American democracy associated with the Jacksonian era. The political, social, and economic history of the years 1815-1844 considered in detail. Prerequisite: GSB 300a.

**430-9 (3,3,3) Late Modern Europe.** (a) Age of Revolution, 1815-1880. (b) 1880-1918. (c) Since 1918. Age of Dictatorships.

**435-12 (3,3,3,3) Advanced American History.** (a) 1865-1896. (b) 1896-1919. (c) 1919-1939. (d) 1939 to present. Prerequisite: GSB 300 a,b,c.

**440-9 (3,3,3) History of American Diplomacy.** (a) To 1913. (b) 1913 to 1945. (c) Recent problems in diplomacy. Prerequisite: GSB 300 a,b,c.

**451-3 Historiography.** Development of history as a written subject, including works and philosophy of the various historians in ancient, medieval, and modern periods.

**452-3 Historical Research and Thesis Writing.** (For students with history concentrations.) The rules of historical research studied and applied to a definite topic.

**454-3 Biography in American History.** Outstanding leaders and their con-



tributions to the history of the United States. Attention to historical writers who specialize in biography. Prerequisite: a course in U.S. history.

**458-8 (4,4) History of Science.** (a) Survey of ancient and medieval science with emphasis on Greek science and scientific developments of the late Middle Ages. (b) Survey of science from 1500 to 1900 with emphasis on "Scientific Revolution." Prerequisites: GSB 101b,c.

**460-9 (3,3,3) Social and Intellectual History of the Middle Ages.** (a) 500-1000. (b) 1000-1250. (c) 1250-1500.

**470-3 Argentina, Brazil, and Chile.** A narrative and comparative study of the independent era of the history of the three leading states of South America.

**471-6 (3,3) History of Mexico.** (a) 19th century. (b) 20th century. Significant political, economic, diplomatic, social, and cultural aspects of Mexican life from independence to modern Mexican life.

**473-6 (3,3) The Caribbean Area.** (a) Island States of the Caribbean. (b) Central American Area.

**474-3 United States-Mexican Relations.**

**500-3 to 9 History Seminar.**

**510-2 to 5 Readings in History.**

**511-3 Studies in the Middle Ages.**

**512-3 Studies in Nineteenth Century Europe.**

**513-4 Problems in Ancient History.**

**514-3 Studies in Asian History.**

**515-3 Current United States History and Problems.**

**519-4 The Age of Jefferson.**

**530-4 City-States of the Italian Renaissance.**

**534-4 Eighteenth-Century England.**

**540-4 American Reform Movements.**

**553-3 New Viewpoints in American History.**

**554-4 Problems in 19th Century America.**

**575-9 (3,3,3) Studies in Latin American History.**

**599-1 to 9 Thesis.**

### Honors Hours

**101, 201, 301, 401-12 (1 to 4) Academic Affairs.** Special and pertinent activity, designed and supervised by carefully selected faculty members, suited to advance the educational development of a Deans College student. (e.g. work on a specific project, progress through a set of assigned readings, preparation of a major paper, etc.)

### Humanities

**301-3 to 4, 302-3 to 4, 303-3 to 4 Humanities Honors.** Prerequisite: completion of the second-level General Studies courses and invitation of the Humanities Honors Program Committee. Accepted in lieu of third-level GSC requirement.

### Instructional Materials

**308-4 School Library Technical Processes.** Organization of library materials for effective service. Acquisition, classification, cataloging, preparation, preservation, and circulation. Laboratory assignments.

**400-2 Library Research Methods.** Introduction to the use of library materials in graduate research. Includes a survey of scholarly publishing and the use of reference works in various subjects.

**403-4 School Library Functions and Management.** Effective library services in relation to the educational objectives of elementary and secondary school programs: organization, supervision, finance, housing, equipment, standards, and evaluation.

**405-4 Library Materials for Children.** Study of the aids, methods, and criteria for the selection and use of books and other instructional materials for children in the elementary schools. Open to juniors with consent of instructor.

**406-4 Library Materials for Adolescents.** A study of the aids, methods, and criteria for the selection and use of books and other instructional materials for students in the high school. Open to juniors with consent of instructor.



**407-4 Basic Reference Sources.** Evaluation, selection, and use of reference sources for elementary and secondary school libraries. Principles and methods of reference service.

**410-4 Public Library Administration.** Administration of municipal, county, and regional libraries, both large and small, with emphasis on meeting the needs of different types of communities.

**413-4 Cataloging of Non-Book Materials.** The classification, cataloging preparation, and circulation of all types of non-book material such as films, filmstrips, slides, realia, etc. Prerequisite: 308.

**417-4 Audio-Visual Methods in Education.** Selection and utilization of instructional materials in the learning environment, elementary through adult levels. Audio and visual materials and procedures are emphasized with some attention given to bibliographies and reference books for teachers.

**420-4 School Library Activities and Practice.** Supervised practice and observation integrated with instruction in typical activities of school librarianship: storytelling, publicity, developing units of library instruction, and work with students. Prerequisites: 308, 403, 405.

**422-4 Book Selection.** Principles for selection and evaluation; use of standard selection aids, reviews and annotations, including policies governing the building and maintenance of the collection.

**440-2 Photography for Teachers.** Techniques of picture-taking and the preparation of color slides of community resources for use in classroom instruction and for school public relations.

**445-4 Preparation of Teacher-Made Audio-Visual Materials.** Laboratory practice in the preparation of bulletin boards, opaque materials, models, slides, recordings, feltboards, and other graphic materials. Prerequisite: 417 or consent of instructor.

**457-4 Radio and Television in the Classroom.** Educational programs and their value to the teacher in the classroom. Sample tapes of radio programs and kinescopes are used.

**458-4 The Medium of the Motion Picture.** A study of the full range of expression by motion pictures including the documentary, theatrical, educational, experimental, and industrial films. Representative films are screened.

**470-4 Programmed Automated Instruction.** The principles and practices of writing both linear and intrinsic types of programmed instruction with emphasis on pictorial and performance branches. Individual experience in planning and producing programs.

**510-4 Mass Communications in Education.**

**514-4 Survey of Research and Development in Instructional Materials.**

**530-4 History of Books and Libraries.**

**546-4 Integration of Audio-Visual Materials in the Classroom.**

**547-4 School Film and Filmstrip Production.**

**548-4 Supervision and Administration of an Audio-Visual Program.**

**549-4 Visual Learning.**

**554-4 Administration of an Instructional Materials Center.**

**560-4 Seminar in Instructional Materials.**

## Journalism

**101-3, 102-3 Introduction to Journalism, I, II.** Development of the newspaper and other media in America; role of the press in modern society.

**103-3 News.** Study of the newspaper story with experience in writing and rewriting news; the fundamentals of copyreading.

**201-3, 202-3, 303-3 News Writing and Editing, I, II, III.** How to cover assignments and write news stories; preparation of copy for publication; writing headlines; laboratory exercises.

**330-3 Editorial Writing.** The work and responsibility of the editor and editorial writer with emphasis upon editorial writing and thinking. Editorial problems, methods, policies, and style.

**340-3 The Law of Journalism.** Legal limitations and privileges affecting publishing, fair comment, criticism, contempt of court, right of privacy, copyright, and legal provisions affecting advertising.

**345-3 History of Journalism.** Development of American journalism with emphasis upon the struggle for freedom of the press, leading editors, outstanding newspapers and periodicals.

**370-4 Principles of Advertising.** Advertising fundamentals in relation to mod-

ern business activities; economic and social aspects, research, media, appeals, production, schedules. Prerequisite: GSB 103b.

**391-3 Feature Writing.** How to plan and write newspaper features and special articles.

### Management Operating Systems

**280-4 Introduction to Electronic Data Processing.** (for non-business students.) An introduction to the principles underlying information theory, electronic data processing applications, and management systems. Includes applications in numerous areas to demonstrate systems, concepts, and computer capabilities. Attention given to the growing impact of systems and computers upon business and government and to the characteristics of the computer industry.

**281-4 Principles of Computer Programming.** A comparative study of stored program concepts, binary coding principles, study of machine language and symbolic coding; definition of problem and preparation of flow charts and block diagrams. Work involves practice problems requiring the preparation of flow charts, block diagrams, coding, preparation of source programs, and test running on computer equipment. Prerequisite: consent of instructor.

**380-4 Management Operating Systems I.** A study of organizational decision making within the concept of systems with emphasis on information flows, decision centers and the application of data processing techniques. A major portion of the course is student development of an information, decision-making, and control system for a specific small-scale business enterprise. The computer is used. Prerequisite: Accounting 231.

**381-4 Management Operating Systems II.** A study of the complexities involved in the simultaneous integration of several sub-systems. Teams of students design company or corporate-wide management operating systems. The computer is used. Prerequisites: Accounting 341, Marketing 452, Production 460, senior standing.

**580-4 Management Systems.**

**583-4 Advanced Management Systems.**

**588-4 Seminar in Management Systems.**

### Marketing

**370-4 Consumer Behavior.** An interdisciplinary approach to the analysis and interpretation of consumer buying habits and motives and the resultant purchases of goods and services. The purchaser's psychological, economic, and sociocultural actions and reactions are stressed as they relate to a better understanding of consumption. Prerequisites: GSB 103a,b, GSB 201c, Economics 201, and Quantitative Methods 211.

**371-4 Principles of Marketing Management.** An introductory survey of the problems encountered by the marketing executive and the analytical and evaluative systems available which can be used to improve his operating efficiency. Emphasis is placed on the use of marketing management factors in the areas of markets, products, distribution, price, and promotion. Prerequisite: 370.

**452-4 Physical Distribution Management.** A systematic, integrated treatment of problems of managing the flow of raw materials, parts, semi-manufactured and finished goods from their sources to the ultimate consumer. Stress on the application and logic of quantitative decision tools to the problems of spatial relationships of plant capacity and storage facilities and their connecting transportation linkages. Prerequisites: 470, Quantitative Methods 310.

**470-4 Marketing Research.** A development of the concepts necessary for understanding and performing research in the area of marketing. The basic procedures and theories underlying research are investigated, evaluated and applied to marketing decision making. Market, advertising, and sales research. Prerequisites: 371, Quantitative Methods 211.

**471-4 Advertising Policy and Management.** Advertising strategy, planning, and research and their relationship to other marketing tools. Emphasis on problems faced by marketing and business executives in administering the advertising effort. Prerequisite: 470.

**472-4 Sales Policy and Management.** An examination of the organization of the sales effort and of functions of salesmen and sales managers (including all



echelons from the general marketing managers to the territory salesmen). Problem areas such as sales department organization, recruitment of salesmen and their motivation and supervision, design and administration of sales territories, appraisal of salesmen's performance. Prerequisite: 470.

**473-4 Advanced Marketing Management.** Development of the student's ability to identify marketing problems, investigate alternative solutions, and render decisions. Should be the final marketing course taken by the undergraduate marketing major. Prerequisite: senior standing.

**570-4 Marketing Concepts.**

**573-4 Marketing Policies.**

**578-4 Seminar in Marketing.**

## Mathematics

**101-4 Fundamental Mathematics.** Basic notions of sets; number systems and their algebraic properties and some computational aspects; ordering of real numbers, inequalities, and absolute value; intuitive geometry; relations, variables, and functions. Individual instruction given as needed until completion of intermediate algebra. Ten lecture and laboratory hours per week. May not carry credit toward some degrees. Graded on pass-fail basis only.

**150-8 (4,4) Elementary Calculus and Analytic Geometry.** Elementary differential and integral calculus with analytic geometry and applications. Includes the definite integral and differentiation of transcendental functions. Must be taken in a,b sequence. Prerequisite: GSD 114c.

**225-4 Programming for Digital Computers.** An intensive course. Topics include computer organization and characteristics, machine language coding, flow charts, subroutines, symbolic coding, and compiler systems. Equipment of the University's Data Processing and Computing Center is used for applications. Prerequisite: GSD 114a.

**252-8 (4,4) Calculus and Analytic Geometry.** Continuation of 150. Includes differential and integrated calculus, applications, introduction to solid analytic geometry, infinite series. Must be taken in a,b sequence. Prerequisite: 150b.

**305-8 (4,4) Applied Mathematics for Physical Sciences.** (a) Ordinary differential equations, Laplace transforms, second order linear differential equations with singular points, special functions. (b) Fourier series and boundary value problems, solution of partial differential equations of the first and second order. Must be taken in a,b sequence. Prerequisite: 252b.

**310-4 The Teaching of Elementary Mathematics.** (For elementary education concentrations only.) A professional treatment of the subject matter of arithmetic methods and a study of trends and current literature on the teaching of arithmetic. Prerequisite: GSD 112-9.

**311-4 The Teaching of Secondary Mathematics.** A study of the nature and objectives of the secondary mathematics curriculum. Stress on the means of introducing new ideas into the high school program. For students preparing to be certified teachers of secondary mathematics. Does not count toward a mathematics concentration for Bachelor of Arts degree students. Prerequisites: 420a, Secondary Education 315.

**321-4 Elementary Matrix Algebra.** Introduction to the algebra of matrices and theory of determinants: inverse of a matrix, rank and equivalence, linear equations, and linear dependence. Prerequisite: 150b.

**335-6 (3,3) Concepts of Geometry.** An elementary introduction to various geometric systems to acquaint the student with the interrelationship between geometries of current interest. Topics include axiom systems, absolute plane geometry, Euclidean geometry, and non-Euclidean geometry. Must be taken in a,b sequence. Prerequisite: 252a or consent of instructor.

**351-4 Multivariable Calculus.** Vector algebra, functions of several variables, the differential and integral calculus. Topics include directional derivatives, maxima and minima, gradient, divergence and curl, line and surface integrals, Green's Theorem, Stoke's Theorem, and integrals independent of path. Prerequisites: 252b, Physics 211a.

**395-2 to 12 Readings in Mathematics.** Supervised reading in selected subjects. Prerequisites: 12 hours of 300- or 400-level mathematics, 4.0 average in mathematics and consent of chairman.

**400-3 History of Mathematics.** An introduction to the development of major mathematical concepts. Particular attention given to the evolution of the abstract concept of space, to the evolution of abstract algebra, to the evolution



of the function concept, and to the changes in the concept of rigor in the development of mathematics from 600 B.C. to the present time. Prerequisite: 420a or consent of instructor.

**410-16 (4,4,4,4) Statistical Analysis.** For students in fields using statistical methods but not required to take calculus. Includes (a) elements of probability, estimation, and testing hypotheses; (b) the general linear model (multiple linear regression, analysis of variance, analysis of covariance) and non-parametric statistics; (c) design of experiments; (d) sample survey techniques. May not be used to satisfy requirements for a mathematics concentration. Three lectures and two laboratory hours per week. Must be taken in either a,b,c,d or a,b,d,c sequence. Prerequisite: GSD 114a.

**413-4 Solid Analytic Geometry.** An algebraic study of equations of the first and second degree in three variables, with applications to geometry. Systems of planes; equations of lines in symmetric and parametric form. Spheres, cylinders, surfaces of revolution. Matrix algebra; real orthogonal and symmetric matrices. Coordinate transformations; orthogonal similarity. Quadratic forms and quadric surfaces; invariants; principal axes and planes. Prerequisite: 252b or consent of chairman.

**415-4 Non-Euclidean Geometry.** An introduction to hyperbolic and elliptic plane geometry and trigonometry. Emphasis given to the nature and significance of geometry and the historical background of non-Euclidean geometry. Prerequisite: 252a.

**420-6 (3,3) Fundamental Concepts of Algebra.** Introduces abstract algebraic structures including groups, rings, fields, and vector spaces. Must be taken in a,b sequence. Prerequisite: 321.

**421-6 (3,3) Linear Algebra.** The theory of determinants and systems of linear equations; vector spaces, linear independence, bases, dimension; linear transformations, change of base, similarity; quadratic and Hermitian forms, orthogonal and unitary transformations; triangular and diagonal form; eigenvalues and eigenvectors; normal matrices; nilpotent and idempotent matrices, the spectral theorem. Must be taken in a,b sequence. Prerequisite: 321.

**425-3 Theory of Numbers.** Topics in elementary number theory, including properties of integers and prime numbers, divisibility. Diophantine equations, and congruence of numbers. Prerequisite: 252b.

**426-6 (3,3) Mathematical Logic.** (a) Matrix and set theoretic development of the propositional calculus, many-valued logics, modal logics. Completion and consistency proofs for the propositional calculus. (b) A formal development of the predicate calculus and related problems. Must be taken in a,b sequence. Prerequisite: 420a or consent of instructor.

**430-4 Projective Geometry.** Introduction to the fundamental concepts of projective geometry. Topics usually include the study of conics, polar systems of conics, homogeneous coordinates, cross-ratio, harmonic sets, duality, projectivities, and involutions. Prerequisite: 321 or consent of instructor.

**433-3 Theory of Point Sets.** General properties of sets; topology of plane sets; closed sets and open sets in metric spaces, homeomorphisms and continuous mappings, connectedness. Prerequisite: 252b and 6 hours in courses numbered 300 or higher, or consent of instructor.

**440-2 to 4 Modern Algebra for Teachers.** An introduction to algebra as a logical system, including groups, rings, and fields. Prerequisite: consent of instructor.

**442-2 to 4 Survey of Geometry.** A survey of geometry, including projective geometry, topology, etc. Prerequisite: consent of instructor.

**445-2 to 4 Fundamental Concepts of Calculus.** A careful study of the basic concepts of calculus offered as part of the special graduate program for secondary school teachers. Prerequisite: consent of instructor.

**446-2 to 10 Structure of Mathematics.** Designed to assist experienced teachers in extending their understanding of mathematics. (a) Elementary School Mathematics, (b) Junior High School Mathematics. Does not count credit toward a mathematics concentration. Prerequisites: experience in teaching, consent of instructor.

**447-4 The Structure of Secondary School Mathematics.** Designed to assist experienced secondary school teachers in extending their understanding of mathematics. May not be taken for credit after credit has been received for 446 and does not count toward a mathematics concentration. Prerequisites: experience in secondary teaching and consent of instructor.

**452-9 (3,3,3) Advanced Calculus.** Fundamental concepts of analysis: limits, continuity, differentiation, and integration. Major topics include partial differ-

entiation, vector analysis, Riemann-Stieltjes integrals, multiple integrals, infinite series, improper integrals, uniform convergence, Fourier series, and line and surface integrals. Must be taken in a,b,c sequence. Prerequisite: 351.

**455-9 (3,3,3) Advanced Mathematics for the Physical Sciences.** Introduction to various topics such as complex variable theory with applications, operational calculus (Laplace and other transforms), vector field theory, and partial differential equations. May be taken separately or in any sequence. Prerequisite for a: 252b; for b,c: 305a.

**458-6 (3,3) Finite Mathematics.** An introduction to topics in finite mathematics such as logic, sets, probability, linear algebra, and Markov chains. Designed for students preparing for high school teaching and for advanced students in the behavioral sciences. Prerequisite: 252a or consent of instructor.

**460-4 Modern Geometry.** Advanced topics in Euclidean geometry by the synthetic method. Topics include the nine-point circle, Simson line, theorems of Ceva and Menelaus, coaxial circles, harmonic sections, poles and polars, similitude, and inversion. Prerequisite: 20 hours of college mathematics.

**472-9 (3,3,3) Computer Science.** An introduction to computing systems and the mathematics of computation. (a) Computer organization, design, and programming systems. (b) Linear system problems, linear programming and network problems. (c) Digital simulation problems, linear and other probabilistic problems. Prerequisites: 225, 305a, 321.

**475-9 (3,3,3) Numerical Analysis.** Introduction to approximation methods including finite differences and interpolation; numerical differentiation and quadrature; least squares approximation; numerical solution of linear and nonlinear systems; numerical integration of systems of ordinary and partial differential equations. Emphasis upon error analysis throughout. Must be taken in a,b,c sequence. Prerequisites: 305a or 252b, consent of instructor.

**480-10 (4,3,3) Probability.** Introduction to probability theory. Includes the algebra of possibilities; discrete and continuous distributions, limit theorems, generating functions, and some elements of stochastic processes. Must be taken in a,b,c sequence. Prerequisite: 252b.

**483-10 (4,3,3) Introduction to Mathematical Statistics.** A mathematical development of the elements of statistical theory. (a) Probability distributions, generating functions, and limit theorems. (b) Statistical inference, estimation, tests of hypotheses, general linear hypotheses. (c) Design of experiments and special topics—a mathematical model approach. Must be taken in a,b,c sequence. Prerequisite: 252b.

**501-9 (3,3,3) Real Variables.**

**505-9 (3,3,3) Theory of Ordinary Differential Equations.**

**510-4 Foundations of Mathematics.**

**520-9 (3,3,3) Modern Algebra.**

**530-3 to 6 Point Set Topology.**

**536-3 Differential Geometry.**

**540-4 Groups and Linear Transformations.**

**545-4 Intermediate Analysis for High School Teachers.**

**550-1 to 10 Seminar.**

**551-9 (3,3,3) Functional Analysis.**

**555-9 (3,3,3) Complex Variables.**

**575-9 (3,3,3) Advanced Topics in Numerical Analysis.**

**580-9 (3,3,3) Mathematical Methods of Statistics.**

**595-1 to 10 Special Project.**

**599-1 to 9 Thesis.**

## Music

**001-3 (1,1,1,0) Bands.** (a) Symphonic Band, (b) University Band, (c) Stage Band, (d) Instrumental Laboratory. May be taken in any sequence. Any part may be repeated. Prerequisite: a,c by audition; b,d by consent of instructor.

**002-7 (1,1,1,1,1,1) Choral Ensembles.** (a) Collegiate Singers, (b) University Chorus, (c) Male Chorus, (d) Women's Glee Club, (e) Southern Illinois University Community Choral Society, (f) Madrigal Singers, (g) Concert Chorale. May be taken in any sequence. Any part may be repeated for twelve quarters. Prerequisite: auditions for a,f,g.

**003-1 University Symphony Orchestra.**

**010-6 (1,1,1,1,1,1) Class Applied Music.** Offered in all areas of applied music



except organ, harpsichord, and harp. Includes minimum instruction required for passing proficiency examinations in piano and voice. Offer practical training in basic principles of playing instruments of orchestra and band. Introductory techniques and methods for teaching instrumental and choral groups in elementary and secondary schools. May be taken in any sequence.

- a. Strings
- b. Woodwinds
- c. Brass

- d. Percussion
- e. Piano
- f. Voice

**105-12 (4,4,4) Theory of Music.** Fundamentals of music through sight singing, dictation, written and keyboard harmony. Must be taken in a,b,c sequence. Prerequisite: piano proficiency or concurrent enrollment in 010e.

**106, 206-15 (5,5,5) Technics and Literature of Music Practice.** Theoretical and historical study of music of all periods from plainsong and folksong to the present; performance and analysis of music within a historical framework which forms the basis for ear-training, sight-reading, conducting, and composition. Five class periods weekly plus laboratory and drill sessions. Prerequisite: piano proficiency or concurrent enrollment in 010e.

**140, 240, 340, 440, 540-2 or 4 Private Applied Music.** Offered at five levels in the areas listed below. Credit is given at 2 or 4 hours on each level. Consult with adviser for details of credit and requirements. May be repeated for three quarters at each level. Students with a concentration in Performance usually take 4 hours. Concentrations in Music Education and all secondary concentrations usually take 2 hours. Prerequisite for 140: music concentration or secondary concentration or consent of music faculty. Prerequisite for higher levels: three quarters at the previous level on the same instrument or consent of instructor.

- a. Violin
- b. Viola
- c. Cello
- d. String Bass
- e. Flute
- f. Oboe
- g. Clarinet
- h. Bassoon
- i. Saxophone
- j. Percussion

- k. Piano
- l. French Horn
- m. Trumpet
- n. Trombone
- o. Tuba
- p. Baritone
- q. Voice
- r. Organ
- s. Harpsichord
- t. Harp
- u. Classical Guitar

**141-0 Recital Class.**

**200-3 Fundamentals of Music.** Rudiments of music for those with little or no musical background. Recommended as a course preliminary to 300 (not for music concentrations). May be taken concurrently with 010e.

**205-9 (3,3,3) Theory of Music.** Advanced harmonic techniques, modulation, altered chords, chromatic harmony, counterpoint, and introduction to contemporary harmonic principles. Must be taken in sequence. Prerequisite: 105c.

**206-15 (5,5,5) Technics and Literature of Music Practice.** (See 106.)

**240-2 or 4 Private Applied Music.** (See 140.)

**300-3 Music Education—Elementary.** (For non-music concentration only.) Teaching music in the elementary grades. Prerequisite: 200 or equivalent.

**301-9 (3,3,3) Music Education.** (a) Music in the elementary school curriculum, grades K-6. Analysis of instructional materials, development of rhythmic and melodic expressions, creative, instrumental, listening activities. Creating a musical environment in the classroom. (b) Junior high school: Curriculum, organization, and administration of choral, instrumental, and general music classes; resource units; the adolescent voice. (c) Senior high school: Curriculum, organization, and administration of choral, instrumental, and general music classes. May be taken in any sequence. For music concentration only.

**307-4 Recreational Music.** For those interested in the less formal approach to music and for prospective leaders for recreational activities.

**309-6 (3,3) Orchestration.** The techniques of writing for orchestral instruments. Must be taken in a,b sequence. Prerequisite: 205c.

**312-6 (3,3) Composition.** (a) Original composition in the smaller forms for piano, voice, string quartet, and other small combinations. (b) Original composition in the larger forms. Must be taken in a,b sequence. Prerequisite: 205c.

**318-6 (3,3) Conducting.** (a) General: Fundamental conducting patterns, size of beats, use of each hand; conducting experience with laboratory groups both choral and instrumental; discussion and study of musical terminology. (b) Choral and Instrumental: Continued conducting experience through laboratory



group; study of rehearsal techniques, balance, blend, and the relationship of parts to the total ensemble; evaluation and analysis of literature suitable for school groups of all levels of ability. Must be taken in a,b sequence.

**326-6 (3,3) Analysis.** (a) Analysis of the important musical forms and styles from plain song through the 12-tone technique with emphasis on forms of the 18th and 19th centuries. (b) Analysis of the larger homophonic and contrapuntal forms from the 18th century to the present. Must be taken in a,b sequence. Prerequisite: 205c or consent of instructor.

**340-2 or 4 Private Applied Music.** (See 140.)

**355-4 (1,1,1,1) Chamber Music Ensembles.** (a) Brass, (b) Woodwinds, (c) Strings, (d) Percussion. May be taken in any sequence. Any part may be repeated for 12 quarters. Prerequisite: consent of instructor.

**357-9 (3,3,3) Music History and Literature.**

**401-3 Psycho-Physiology of Music.** The essential human capacities, their relationship to musical potentials and development as well as with the acoustical foundations of the world of music.

**411-9 (3,3,3) Music Literature.** (a) **Symphonic Literature.** Development of the symphony and the symphonic poems to 1900. (b) **Choral Literature.** The literature of the larger vocal forms such as the cantata and oratorio to 1900. (c) **Chamber Music Literature.** Chamber music literature from the Renaissance to the present.

**414-2 to 6 Collegium Musicum.** Practicum in the preparation and performance of music from early times to the classical period. Prerequisite: music major and/or consent of the faculty.

**420-1 Music Education Practicum.** A shop-laboratory course dealing with the selection, adjustments, maintenance, and repair of musical instruments.

**440-2 or 4 Private Applied Music.** (See 140.)

**442-6 (3,3) Contrapuntal Form.**

**451-3 Teaching General Classroom Music.**

**453-4 to 6 Workshop in Common Learnings in Music.**

**455-2 to 6 Elementary Music Education Workshop.**

**461-6 (3,3) (a) Teaching Techniques and Materials for the Beginning and Intermediate Levels.** Designed to meet the needs of applied students in which the problems of private studio teaching and college-level teaching are discussed. (b) **Teaching Techniques and Materials for the Advanced Student.** Prerequisite: 461a.

**462-2 Teaching Techniques and Materials for the Advanced Student.**

**465-3 Development and Teaching of Strings.** Place and function of string education in the elementary and secondary schools. Techniques of heterogeneous and homogeneous string teaching. Developing and sustaining interest in the string program. Resource aids. May be repeated for a total of 9 hours credit. Prerequisite: senior standing.

**481-2 to 6 Readings in Music Theory.**

**482-2 to 6 Readings in Music History and Literature.**

**483-2 to 6 Readings in Music Education.**

**499-1 to 3 Independent Study.** The capable student engages in original investigations with faculty specialists. May be repeated for credit. Prerequisite: consent of instructor.

**501-3 Introduction to Graduate Study in Music.**

**502-9 (3,3,3) History and Analysis of Musical Style.**

**515-3 20th Century Literature.**

**518-3 Pedagogy of Music Literature.**

**519-9 (3,3,3,) Vocal Pedagogy and Literature.**

**520-3 American Music.**

**522-3 Seminar: Music History and Literature.**

**535-3 Contemporary Idioms.**

**540-2 or 4 Private Applied Music.** (See 140.)

**550-8 (4,4) Organization and Administration of the Music Education Program.** (a) elementary, (b) secondary.

**553-6 (3,3) Seminar in Materials and Techniques.** (a) choral. (b) instrumental.

**554-3 Seminar in Instrumental Materials and Techniques.**

**556-3 Advanced Conducting.**

**560-2 to 6 Seminar in Music Education.**

**566-1 Instrumental Ensemble.**

**567-1 Vocal Ensemble.**

**599-3 to 9 Thesis.**

## Nursing

Courses on the 300 level are open only to students concentrating in nursing.

**210-4 Nutrition.** A non-laboratory course treating principles of normal nutrition. Stress on the ability to use diet variations with people of different cultural backgrounds and economic levels.

**280-8 (4,4) Nursing and Community Health.** A course designed to introduce the student to nursing by way of the concept of health starting with the community. Included is an introduction to the fundamentals of nursing using the problem-solving approach and using a variety of community agencies other than the hospital as clinical facilities.

**301-8 Nursing I.** Study of the principles of nursing care of mother and baby throughout the maternity cycle. Supervised experience and clinical conferences correlated with theory.

**302-8 Nursing II.** Study of the principles of nursing care of children during illness. Supervised experience and clinical conferences correlated with theory.

**325-8 Psychiatric Nursing.** Emphasis on the nurse-patient relationship, leading to development of interpersonal skills which result in the nurse's ability to observe and interpret behavior, to communicate with others, and to understand the significance of such abilities in a broad social context. Supervised experiences and clinical conferences correlated with theory.

**355-4 Backgrounds and Trends in Nursing.** A study of nursing at the present time in relation to historical and other influences upon it. The implications for its future developments.

**363-22 (8,6,8) Medical-Surgical Nursing.** (1) Investigations of the scientific basis of health and physical, emotional, mental, and social deviations caused by illness. Learning experiences are based on the scientific knowledge obtained in related and correlated subjects. Emphasis upon the health needs of individuals and society, cooperative endeavors with members of the health team, and the professional nurse's unique contribution in term of preventive, therapeutic, and rehabilitative care. (2) Supervised experience and correlated conferences in the care of individuals with medical and surgical conditions.

**375-8 Nursing V.** Objectives, principles, and practices in public health nursing, application of nursing science and art, and their relationship to family and community living. Supervised experience in a public health agency conducting a generalized program. Includes orientation, demonstrations, and conferences.

**382-6 Nursing VI.** Emphasizes the need for responsible leadership in nursing. Basic principles of administration and supervision as means of developing effective relationships within health and nursing teams and other institutional and community situations.

**385-1 to 4 Independent Study.** Student projects and study carried out under guidance in investigation of a problem in an area of interest.

## Personnel and Industrial Relations

**450-4 Personnel Administration.** The functions of the personnel department in an organization; organization for personnel administration; factors affecting the efficiency of personnel; the managerial responsibility for effective personnel administration; personnel practices including recruitment, selection, employment, orientation, evaluation, transfer, promotion, dismissal, grievances, the personnel-centered approach contrasted to the task-centered approach. Case discussion and reports on selected topics assist in developing the varied responsibilities of the personnel function. Prerequisite: General Business Administration 340.

**451-4 Labor Relations Law and Collective Bargaining.** An analysis of labor relations legislation and the complex interrelations of management, employees, and labor unions, as well as of collective bargaining contracts, their scope, enforceability, and significance to labor relations. Cases and reports are incorporated. Prerequisite: General Business Administration 340.

**452-4 Advanced Problems in Personnel Administration.** Analysis of special problems of personnel administration in periods of rapid technological change. Case problems and reports are used to emphasize such pertinent areas as wage



and salary administration, automation, unemployment, training, productivity, and the administration of technical and scientific personnel. Prerequisite: 450.

**453-4 Advanced Problems in Industrial Relations.** Exploration and development of labor, management, and government relations. A study of conflict and harmony between them as individual units and as a totality. Emphasis is placed on the internal grievance procedure and the roles of the National Labor Relations Board, Federal Mediation and Conciliation Service, arbitrators, and other tripartite bodies in Industrial Relations. Cases and reports are incorporated. Prerequisite: 451.

## Philosophy

**200-4 Introduction to Philosophy.** Survey of the traditional branches and problems of philosophy, such as religion, metaphysics, epistemology, ethics, political theory, aesthetics, and history.

**300-4 Introduction to Metaphysics.** Presentation of answers to the most general problems of existence. An attempt to unify all scientific approaches to reality through the laying down of common principles.

**301-4 Philosophy of Religion.** An analysis of problems in the psychology, metaphysics, and social effects of religion. The nature of mystical experience, the existence of God, and problems of suffering, prayer, and immortality.

**302-4 World Religions.** A historical and comparative study of the principal religions of the world. Particular attention is given to such non-Christian faiths as Hinduism, Buddhism, and Islam.

**342-4 Social and Political Theory.** Philosophical analysis of social values and their expression in governmental organization.

**355-4 Philosophy of Education.** Survey of theories of education and their relationships to educational policies and practices, as elucidated by the great teachers. Satisfies the education requirement, Educational Administration 355.

**360-4 Philosophy of Art.** The significance of art as a human activity, its nature and standards as seen in the problems of criticism, and the relation of art to other forms of knowledge.

**GSC 360-6 (3,3) Arts and Ideals in Famous Cities.**

**GSA or GSC 363-6 (3,3) Philosophy of Science.**

**GSC 375-6 (3,3) Ethics.**

**385-20 (4,4,4,4,4) History of Western Philosophy.** (a) Greek and Roman. (b) Medieval and Renaissance. (c) Classical Modern (17th and 18th centuries). (d) 19th Century. (e) 20th Century.

**386-4 American Philosophy.** A survey of American philosophic thought from colonial days to the present, with emphasis on such recent thinkers as Peirce, James, Royce, Dewey, and Santayana.

**391-4 Introduction to Theory of Knowledge.** A study of the various kinds of knowledge, of the foundations of knowledge in thought and perception, and of the rational and empirical elements constituting the structure of knowledge.

**430-4 Symbolic Logic.** Use of symbols as tools for analysis and deduction. Study of truth tables, Boolean Expansions, propositional calculus and quantifiers, logic of relations, and their functions in logistic systems.

**443-4 Philosophy of History.** Classical and contemporary reflections on the nature of history and historical knowledge as the basis for dealing with the humanities.

**484-12 (4,4,4) History of Western Political Theory.** (Same as Government 484.) (a) Ancient and Medieval. (b) Renaissance and Early Modern. (c) Recent. May be taken separately.

**490-2 to 12 Special Problems.** Seminar for qualified seniors and graduate students to pursue specific topics in depth. Varied content. Prerequisite: consent of instructor.

**495-2 to 12 Independent Readings.** Independent study in philosophy on a tutorial basis. Prerequisite: consent of instructor and chairman.

## Physical Education

**025-0 Orientation.**

**303-5 Kinesiology.** Study of joint and muscle action as a basis for the mechanical analysis of human physical movement in daily life and in physical education activities and sports.



**305-3 Physical Education for the Atypical Student.** The recognition of physical deviations and the provisions of special or modified physical education or recreational activities for such students. Prerequisite: 303.

**312-2 to 6 Playground Leadership.** (Field Experiences).

**323-3 (1,1,1) Officiating Techniques.** Study of rules and their interpretation; requirements for ratings given by the United States Field Hockey Association and the Division for Girls' and Women's Sports. Officiating practice required. (a) Fall: field hockey and soccer. (b) Winter: basketball. (c) Spring: volleyball and softball.

**341-3 Principles of Physical Education.** The scientific foundations of physical education based on accepted principles of psychology, physiology, sociology, biology, educational method, philosophy, anatomy, kinesiology, and related areas.

**348-3 Camp and Community Leadership.** Fundamentals of scouting, camping, and counseling. A weekend camping trip required.

**349-2 Camping Education.** Designed to give the potential camp counselor an understanding of the camp; its physical set-up, equipment and necessary routines; its personnel, purpose, traditions, and possibilities.

**350-4 Methods and Materials for Teaching Physical Education Activities in the Elementary School.** The organization and conduct of the program, program planning, evaluation of materials, observation and practice in creative rhythms, singing games, folk dancing, and games of low organization. (Required for elementary education.)

**352-2 History and Physical Education.** A study of the background and development of physical education.

**354-3 Organization and Administration of Physical Education and Athletics.** The organization and conduct of the total program of physical education including interscholastic athletics based upon accepted educational policies and practices. Emphasis on problems of administration.

**355-2 Techniques of Teaching Swimming.** Methods of teaching, analysis of strokes, and the devices for teaching swimming and life saving. Prerequisite: senior lifesaving.

**365-2 to 4 Organization and Administration of Community Recreation.** The social, economic, and governmental structure of the community; establishing the community recreation program; problems of facilities, equipment, finance, promotion; selecting and supervising personnel; integration with associated programs.

**370-4 Tests and Measurements in Physical Education.** Measurements as an aid in determining student needs, curriculum construction, teaching effectiveness, and the attainment of educational objectives. Includes the selection, administration, and interpretation of tests.

**376-3 Emergency Care and Prevention of Athletic Injuries.** The theoretical and practical methods of preventing and treating athletic injuries. Techniques of taping and bandaging, emergency first aid, massage, use of physical therapy modalities.

**381-4 Theory of Coaching.** Principles underlying participation in competitive interscholastic athletics. Theory of coaching sports, technique, strategy, organization and administration of programs.

**382-4 Methods and Materials in Secondary Schools.** Preparation of teachers and supervisors for group management related to recreational activities. Emphasis on proper class arrangements for maximum teaching effectiveness. Considerable attention to appropriate teaching material.

**383-2 Outdoor Group Games.** Prepares student to develop outdoor group game activities. Emphasis on correct techniques, fundamentals, strategy, and evaluation procedures. Stresses lead-up approach to group activity. Includes practical experiences. Prerequisite: consent of instructor.

**384-2 Rhythmical Activities.** Deals with all phases of the rhythmical program, teaching techniques, analysis of problems, evaluation techniques. Includes experience in working with children. Prerequisites: GSE 117a,b,f.

**385-2 Indoor Group Games.** Basic indoor activities of the elementary school program. Stress on correct techniques, fundamentals, strategy, and evaluation procedures. Emphasizes lead-up approach to group activity. Prerequisite: consent of instructor.

**387-2 Developmental Skills.** Stresses basic developmental skills that should be included in physical education program for the elementary school. Emphasis upon progression from gross skills to refined skills. Prerequisite: consent of instructor.

**388-2 Self Testing Activities.** Prepares the student to develop programs of self testing skills. Stresses knowledge of problems, techniques, materials, safety factors, and evaluation procedures. Includes experience with children. Prerequisite: GSE 118s.

**389-4 Affiliation in Physical Education.** Observing and assisting instructor in planning, scheduling, and conducting a physical education program. Students acquire this experience by working in area schools. Prerequisite: consent of instructor.

**390-3 Evaluation Techniques in the Elementary School Physical Education Program.** A study of methods and concepts in measuring a child's growth and development and physical fitness index with emphasis on analyzing various skill tests and their application to the child.

**402-4 Organization and Administration of Intramural and Extramural Activities.** Planning intramural programs of sports. Planning and co-ordinating extramural activities commonly associated with physical education.

**404-4 Workshop in Dance for In-Service Teachers.** Includes history of dance, values of dance, interpretation of music for dance, teaching techniques and facilities, and fundamental dance movements leading to knowledge and command of dance skills.

**420-4 Physiological Effects of Motor Activity.** The general physiological effects of motor activity upon the structure and function of body organs; specific effect of exercise on the muscular system.

**427-4 Physical Education and Recreation for the Handicapped.** (Same as Special Education 427.) Characteristics of handicapped children as they affect the feasibility of physical education and recreation activities. Values of specific activities for certain types of children, and methods and materials for teaching physical education and recreation skills. Emphasis on activities suitable to classroom, home, and institution. Prerequisite: Counselor Education 305.

**475-2 to 4 Individual Research.** The selection, investigation, and writing of a research paper under the supervision of instructor.

**476-2 to 4 Teaching Athletic Skills.** Modern techniques of teaching skills, conditioning, and strategies; for prospective physical education teachers and coaches.

**500-4 Techniques in Research.**

**501-4 Curriculum in Physical Education.**

**502-4 Foundations of Motor Skills.**

**503-4 Seminar in Physical Education.**

**504-4 Problems in Physical Education.**

**509-4 Supervision of Health and Physical Education.**

**525-1 to 6 Readings in Physical Education.**

## Physics

**206-15 (5,5,5) College Physics.** Designed to meet premedical requirements and the needs of students majoring in the biological sciences. Laboratory. Must be taken in a,b,c sequence. Prerequisite: GSD 114a.

**211-12 (4,4,4) University Physics.** A basic course for science, mathematics, and pre-engineering students. (a) Kinematics, dynamics, and statics. (b) Thermodynamics, wave motion, acoustics, optics. (c) Electrostatics, electric current theory, magnetism, and electromagnetic waves. Three lecture and two recitation hours per week. Must be taken in a,b,c or a,c,b sequence. Prerequisite: (a) Mathematics 150a or concurrent enrollment; (b,c) 211a, Mathematics 150b or concurrent enrollment.

**212-3 (1,1,1) University Physics Laboratory.** Experiments in mechanics, heat, sound, light, electricity, and magnetism. Meets three hours per week. Prerequisite: concurrent enrollment in 211.

**300a-4 Introduction to Modern Physics.** A continuation of 211 covering topics from atomic, nuclear, and solid state physics. Three lectures and two recitation hours per week. Prerequisites: 211, or 206, and Mathematics 150b.

**300b-1 University Physics Laboratory IV.** Classic experiments in modern physics; Millikan oil drop,  $e/m$ , Franck-Hertz, Foucault velocity of light and black body radiation along with experiments in nuclear physics. Prerequisite: concurrent enrollment in 300a.

**301-8 (4,4) Introduction to Classical Mechanics.** Statics of a particle, of a rigid body, and of a flexible string; the principle of virtual work, motion of a particle in a uniform and in a central force field, simple harmonic motion,



motion of a system of particles, rigid body motion in a plane; non-inertial reference frames; generalized coordinates, Lagrange's and Hamilton's equations of motion; vibrating systems, normal coordinates, and wave motions. Prerequisites: 211a, Mathematics 252b.

**304-4 Thermodynamics and Kinetic Theory.** A macroscopic study of the thermal properties of matter and the laws of the thermodynamics. Kinetic theory and the distribution of molecular velocities. Transport phenomena. Prerequisite: 211b.

**305-8 (4,4) Introduction to Electromagnetic Field Theory.** Vector treatment of the theory: electrostatics in vacuum and in matter, steady currents, magnetism, magnetic materials, and electromagnetic radiation. Must be taken in a,b sequence. Prerequisite: 211c, Mathematics 351, or concurrent enrollment.

**310-4 Physical Optics.** Theory of interference and interferometers, Fresnel and Fraunhofer diffraction, Fourier transform theory of diffraction; velocity of light, polarization, electromagnetic theory of light applied to reflection and refraction in isotropic media and anisotropic media; birefringence, optic axis, crystal optics, optical activity; theory of normal and anomalous dispersion, scattering of light by particles; quantum optics, lasers. Prerequisite: 211, Mathematics 252b, or concurrent enrollment.

**311-1 Optics Laboratory.** Advanced experiments in geometrical and physical optics. Two laboratory hours per week. Prerequisite: 310 or concurrent enrollment.

**375-0 to 6 Seminar.** Topics selected from a wide range of physical theories and applications (maximum credit per quarter 2 hours). Prerequisite: consent of instructor. Junior or senior standing recommended.

**404-3 Introduction to Statistical Mechanics.** A brief treatment of the kinetic theory of gases; introduction of phase spaces and ensemble theory. Shows the connection between mechanical and thermodynamic concepts and obtains a statistical interpretation of thermodynamic processes. Prerequisite: 301, 304, or consent of instructor.

**415-12 (4,4,4) Modern Physics.** Elements of wave mechanics, atomic and nuclear physics, and special relativity. Must be taken in a,b,c sequence. Prerequisites: 300a, Mathematics 305.

**418-1 to 4 Modern Physics Laboratory.** An advanced laboratory course including work with pulsed and continuous lasers and optical detectors, nuclear magnetic resonance, nuclear spectroscopy, vacuum techniques, mass and beta spectroscopy, semiconductor physics. Prerequisite: 300 or consent of instructor.

**420-2 to 5 Special Projects.** Each student is assigned to a definite investigative topic. Adapted to advanced undergraduate students. Prerequisite: 8 hours of physics courses above 300.

**435-3 Plasma Physics.** Basic equations and conservation laws; first order orbit theory with applications to static and dynamic problems; small amplitude plasma waves; hydromagnetic shocks; collision effects; diffusion across a magnetic field; stability; coupling of plasmas and radiation. Prerequisite: 305a,b.

**445-8 (4,4) X-Ray Crystallography.** (a) Symmetry elements, development of space groups, reciprocal space, geometrical theory of diffraction, determination of lattice parameters, Fourier representations of periodic structure. (b) Production of X-rays, kinematical theory of X-ray diffraction, diffraction techniques, factors affecting the intensity of reflections, extinction contrast methods, introduction to the dynamical theory. Must be taken in a,b sequence. Prerequisite: 300.

**450-3 Introduction to Solid-State Physics.** A study of the fundamentals of solid-state physics including classification of solids, interatomic and intermolecular forces, lattice energies, specific heats, lattice dynamics, free electron theory of metals, lattice defects, color centers, luminescence, magnetic materials, radiation damage; transport in ionic crystals. Fermi-Dirac statistics, Fermi distribution, and semiconductors. Prerequisites: 300, 305; 304 or consent of instructor.

**510-9 (3,3,3) Classical Mechanics.**

**530-9 (3,3,3) Electromagnetic Theory.**

**531-9 (3,3,3) Quantum Mechanics.**

**540-3 Nuclear Physics.**

**560-3 Statistical Mechanics.**

**570-3 Solid State Physics.**

**575-1 to 4 Graduate Seminar.**

**580-3 to 6 Selected Topics in Physics.**

**590-1 to 9 Research in Physics (Thesis).**



## Production

**460-4 Production Management.** Analysis of the basic functions of manufacturing firms. Students work on a project of their choice in conjunction with the lectures and class discussions. Topics include blueprint reading, equipment and tools, plant layout, product flow, materials handling, quality control, cost control, production control, methods engineering, product engineering, inventory control, the use of PERT, and financial concepts as related to production management. Several plant visits are conducted during the course. Prerequisite: General Business Administration 340.

**461-4 Methods Design and Work Measurement.** Design of work systems, methods, and the techniques employed in the measurement of work. Emphasizes current philosophy underlying improvement of work methods and procedures used to measure work performed. The course covers four major areas: methods design, standardizing the operation, work measurement, and training the operator. A number of projects correlating with the course material are assigned. Prerequisite: 460.

**462-4 Production Planning and Control.** Analyzes and describes the recurrent problems of managing the flows of materials, services, and information produced in response to changes in market demand. Emphasizes the top-level decisions necessary to plan and control operations so that customers are served on time and penalty costs are minimized, as well as the decisions made by middle and first line managers in regard to scheduling and controlling, purchasing, production, and distribution. Selected decision-making techniques are analyzed and evaluated from the production manager's point of view. Prerequisite: 460.

**463-4 Advanced Production Management.** Examines the operating decisions that confront the managerial and supervisory production personnel of large, medium, and small scale manufacturing firms using a variety of production processes. Emphasizes decision-making leading to the solution of production operating problems, and to the formulation of plans of action. Assigned cases provide a view of the types of decisions involved in planning, organizing, coordinating, integrating, and controlling resources so that production goals may be realized. Prerequisites: 460, 461, 462.

## Psychology

**211-8 (4,4) Principles and Methods of Psychology.** An introduction to the experimental methods utilized in the study of behavior. (a) The application of methods to the study of sensation, perception, and learning; (b) The analysis and interpretation of psychological data. Lecture and laboratory. Prerequisite: GSB 201c.

**301-4 Child Psychology.** A study of the biological and psychological development of the child from birth through puberty, and of relevant research methods and results. Prerequisite: GSB 201c.

**303-4 Adolescent Psychology.** Examines the physical and psychological development of the adolescent, and the relevance of childhood development to adolescent problems. Prerequisite: GSB 201c.

**304-4 Psychology of Maturity and Old Age.** A consideration of psychological factors in later maturity and old age and their concomitant problems, both individual and societal. Prerequisite: GSB 201c.

**305-4 Introduction to Personality Dynamics.** Exploration of human motivations, personality patterns, and ways of coping with the stresses of modern life. Prerequisite: GSB 201c.

**307-4 Social Psychology.** Introduction to the study of the individual's interaction with his social environment. Considers problems of social learning, attitude formation, communication, social influence processes, and group behavior. Prerequisite: GSB 201c.

**311-4 Experimental Psychology: Learning.** Investigates the processes governing behavioral change. Emphasizes experimental studies of conditioning, memory, and forgetting. Laboratory work includes the design and conduct of experiments with humans and animals. Lecture and laboratory. Prerequisite: 211a,b.

**312-4 Experimental Psychology: Perception.** Investigates the variables influencing an organism's stimulation by his environment. The structure and

operation of the sense organs as well as complex perceptual phenomena are examined in lectures and laboratory. Prerequisite: 311.

**313-4 Experimental Psychology: Motivation.** An examination of both biological and social variables influencing the activation, direction, and maintenance of behavior. Laboratory work examines the effects of motivation upon behavior. Lecture and laboratory. Prerequisite: 311.

**314-4 Experimental Psychology: Comparative and Physiological.** An examination of the physiological and phylogenetic variables affecting behavior. The laboratory involves work with different types of organisms emphasizing physiological concomitants of behavior. Lecture and laboratory. Prerequisite: 311.

**320-4 Industrial Psychology.** A study of the functions of psychology as a science and as a profession in contemporary business and industry. Prerequisite: GSB 201c.

**404-4 Theories of Perception.** An examination of the different theories concerned with an organism's sensory contact with his environment. Physiological, social, and organizational theories of perception. Prerequisite: 312 or consent of instructor.

**406-4 Learning Processes and Applications.** An examination of processes by which behavior is acquired, changed, or extinguished; an application of learning principles developed in the learning laboratory. Prerequisite: consent of instructor.

**407-4 Theories of Learning.** A consideration of the major contemporary learning theories and their relation to experimental data. Prerequisite: 311 or consent of instructor.

**408-4 Theories of Motivation.** An examination of instinct theories, biological drives, emotions, social motives, and psychodynamic theories as they contribute to a comprehensive psychology of motivation. Prerequisite: 313 or consent of instructor.

**409-4 History and Systems.** Study of the important antecedents of contemporary scientific psychology. Considers issues, conceptual developments, and research advances, and presents the major schools and systems. Prerequisite: signed consent of psychology adviser.

**420-4 Experimental Analysis of Behavior.** An examination of the principles of respondent and operant conditioning in human and animal behavior. Lecture and laboratory. Prerequisite: GSB 201c.

**421-4 Psychological Tests and Measurements.** Principles of psychological measurement, including errors of measurement, techniques for estimating reliability and validity, techniques of test construction, and problems in assessment and prediction. The laboratory includes the use of selected instruments. Lecture and laboratory. Prerequisites: 211b, consent of instructor.

**431-4 Psychopathology.** Classification, description, etiology and treatment of the disorders of personality organization and behavioral integration. Observations in a state mental hospital setting. Prerequisite: 305 or consent of instructor.

**432-4 Mental Hygiene.** An integration of psychological knowledge and principles concerning factors and conditions affecting the individual which tend to facilitate or determine health.

**440-4 Theories of Personality.** A review and critical evaluation of major personality theories and their supporting evidence. Prerequisite: 305 or consent of instructor.

**451-4 Advanced Child Psychology.** An examination of concepts, methods, and problems of human development with consideration of both its psychological and psychosocial aspects. Prerequisite: 301 or 303 or consent of instructor.

**461-4 Advanced Social Psychology.** Examines current areas of interest in the study of social behavior: language behavior, communication, social influence, attitude change, interpersonal perception, etc. Emphasis is on the individual in the social context. Prerequisite: 307 or consent of instructor.

**465-4 Group Dynamics and Individual Behavior.** Examination of research and theory in the area of small-group interaction. Examines such topics as group structure and function, group problem-solving, leadership, etc. Prerequisite: 320 or consent of instructor.

**471-4 Work Methods and Measurement.** A study of the analysis and evaluation of jobs and the measurement of work performances by the use of standard time tables. Prerequisite: 320 or consent of instructor.

**473-4 Personnel Psychology.** Psychological methods in selection, placement, evaluation, and criterion development. Emphasis is on principles and tech-



niques with some examples of application to decision making in business and industry. Prerequisite: 320 or consent of instructor.

**474-4 Psychology of Employee Relations.** A study of job satisfaction and morale, psychological aspects of labor relations, industrial counseling, social and organizational variables as they affect psychological climate in employee relations. Prerequisite: 320 or consent of instructor.

**479-4 Psychology of Industrial Conflict.** Consideration of social and psychological factors underlying controversies between workers and management. Prerequisite: 320 or consent of instructor.

**490-1 to 8 Independent Projects.** Independent readings and projects in psychology. Prerequisite: consent of instructor and chairman.

**495-1 to 8 Seminar: Selected Topics.** Varied content. To be offered from time to time as need exists and as faculty interest and time permit. Prerequisite: consent of instructor.

**501-12 (4,4,4) Proseminar in General Psychology.**

**512-4 Sensory Processes.**

**514-8 (4,4) Physiological Psychology.**

**520-4 Research Design & Inference I.**

**521-4 Research Design & Inference II.**

**522-4 Research Design & Inference III.**

**530-4 Personality Theory and Dynamics.**

**531-2 to 4 Advanced Psychopathology.**

**537-4 Counseling and Psychotherapy.**

**541a-4 Psychodiagnostics I.**

**541b 2 to 4 Psychodiagnostics I.**

**543-6 (4,2) Psychodiagnostics II.**

**552-4 Experimental Child Psychology.**

**556-2 Psychological Treatment of the Child.**

**561-4 Social Influence Processes.**

**564-4 Communication and Group Behavior.**

**571-4 Industrial Motivation and Morale.**

**590-1 to 16 Readings in Psychology.**

**591-1 to 36 Research in Psychology.**

**593-1 to 18 Practicum in Psychology.**

**598-2 Ethical and Professional Problems in Psychology.**

**599-1 to 9 Thesis.**

### Quantitative Methods

**210-4 Probability in Decision Making.** Introduction to certain modern mathematical concepts and methods applicable to business decisions including probability, probability distributions, and elements of calculus. Prerequisite: GSD 114d.

**211-4 Statistical Analysis for Business Decisions.** A further exploration of statistical concepts as applied to business situations including analysis of variance, multiple regression analysis, and non-parametric statistics, under conditions of uncertainty. Prerequisite: 210.

**310-4 Operations Research for Managers.** An introduction to the body of analytical techniques comprehended by the phrase "operations research" with emphasis upon their application to business situations. Includes an introduction to matrix algebra and its use in linear programming. Prerequisite: 211.

**510-4 Statistical Analysis for Decision-Making.**

**511-4 Quantitative Methods for Decision-Making.**

**513-4 Deterministic Models in Decision-Making.**

**518-4 Seminar in Probabilistic Models.**

### Rehabilitation

**480-2 Introduction to Rehabilitation** A survey of historical and legal developments in rehabilitation agencies, with particular emphasis on current theories and trends.

**511-2 to 4 Vocational Developments and Occupational Choice.**

**519-2 Selection, Placement, and Follow-up.**

**531-2 Vocational Appraisal.**

**541-2 Medical Aspects of Rehabilitation.**



**561-2 Psycho-Social Aspects of Disability.**  
**580-1 to 6 Practicum in Rehabilitation Services.**  
**585-4 Practicum in Rehabilitation Counseling.**  
**589-0 to 12 Internship in Rehabilitation.**

### Science and Technology

**390-1 to 15 Science and Technology Honors.** Honors work in the biological sciences, chemistry, mathematics, or physics. Entrance by invitation of the Science and Technology Honors Program Committee. Prerequisite: junior or senior standing.

**400-3 Concepts of Classical Physics.** Classical physics from a phenomenological point of view and at a level which does not require a previous course in the calculus. Primarily for teachers of the physical sciences; subject matter is related to texts and materials available in the teachers' own schools.

**402-4 Modern Physics.** The development of physics in this century. For teachers of the physical sciences. Emphasis on the phenomena which led to the formulation of quantum theory in the twenties. Includes a qualitative discussion of atomic and nuclear physics. Prerequisite: 400 or Physics 206.

**403-6 (3,3) Experiments and Techniques of Physics.** Students perform experiments and consider equipment for teaching physics at the pre-college level. Lectures on experimental techniques.

**415-1 to 3 Instructional Innovation for the Physical Sciences.** A variety of subject matter is considered with regard to its order of presentation in a course, the type of plausibility arguments most successful in a "derivation," the types of demonstrations most appropriate to the subject matter, and the relation of laboratory work to the lecture content.

### Secondary Education

**315-4 High School Methods.** Study and discussion in various types of procedures used for effective classroom teaching. The problem approach and unit method are stressed. Prerequisites: Counselor Education 305, Educational Administration 355.

**352d-8 to 16 Secondary Student Teaching.**

**352e-4 to 8 Advanced Secondary Student Teaching.** Prerequisite: 352d-8.

**407-4 The Junior High School.** The place of the junior high school in the organizational pattern, with major emphasis upon the areas of organization, administration, and curriculum.

**440-3 to 4 Teaching Reading in High School.** A foundation course in how to teach reading in junior and senior high school: developmental and corrective reading programs, appraisal of reading abilities; methods and materials of instruction. Prerequisite: Counselor Education 305.

**480-4 Backgrounds of Urban Education.** (See Educational Administration 480 and Elementary Education 480.)

**487-4 Teaching the Natural Sciences in Secondary Schools.** Objectives of science education; instruction methods and techniques appropriate for teaching science; desirable equipment, audio-visual aids, and instructional materials; development of a course outline and at least one instruction unit.

**488-4 Teaching Social Studies in Secondary Schools.** Objectives, scope and sequence of curriculum, methods of teaching different courses and age groups, materials and evaluation. Prerequisite: 315.

**505-4 Improvement of Reading Instruction.**

**507-2 to 4 Readings in Reading.**

**508-4 Seminar: Trends in Selected Areas in Secondary Schools.**

**509-4 to 8 Practicum in Reading.**

**514-4 Organization and Administration of Reading Programs.**

**518-2 to 4 Supervision of Student Teachers.**

**521-12 (4,4,4) Diagnosis and Correction of Reading Disabilities.**

**550-4 Core Curriculum in the Secondary School.**

**562-4 The High School Curriculum.**

**564-4 High School Principalship.**

**567-12 (4,4,4) Teaching Competencies and Their Application.**

**570-4 Extra-Class Activities.**

**575-2 to 4 Individual Research.**

**591-4 Workshop in Current Problems in Secondary Education.**

**596-5 to 9 Independent Investigation.**

**597-1 to 3, 598-1 to 3, 599-1 to 3 Thesis.**

### **Social Welfare**

**380-4 Social Welfare as a Social Institution.** Interdependence of social, cultural, political, and economic factors in the history, theory and practice of social welfare, with special reference to development of the social work profession in response to welfare problems. Prerequisite: GSB 103a.

**383-4 Introduction to Interviewing.** Theory and practice of interviewing as a means of gaining information, and of understanding and imparting the same. Focus is on the interview as a tool in social work, but principles are generally applicable. Prerequisite: GSB 103a or 201c.

**389-2 to 5 Readings in Social Welfare.**

**481-4 Processes in Social Work.** Theory, rationale, and practice of casework, group work, social welfare organization, and the roles of supervision, administration, and research in relation to each. Case material study and discussion with field observation and practice. Prerequisite: consent of instructor.

**482-4 Social Work in Selected Agencies.** Study of representative literature on casework in family, psychiatric, medical, school, military, child welfare, and correctional settings, and others. Case material study and discussion with field observation and practice. Prerequisite: 481.

### **Sociology**

Courses in sociology are listed according to numerical order. However, the second digit in the course number indicates its field as follows:

- 00-09 General Sociology
- 10-19 Methodology and Research Techniques
- 20-29 Social Psychology
- 30-39 Social Organization and Structure
- 40-49 Family
- 50-59 Sociology of Knowledge
- 60-69 Social Disorganization and Deviance
- 70-79 Special Fields
- 80-89 Applied Fields

**241-4 Marriage and Parenthood.**

**301-4 Principles of Sociology.** The structure and functions of social relationship systems, both simple and complex. Analysis of processes of social differentiation, integration, and disorganization. Prerequisite: junior standing.

**302-4 Contemporary Social Problems.** Discussion and analysis of selected contemporary social problems with consideration of alternative courses of action. Prerequisite: 301.

**306-4 Social Control.** The means and principles of social controls; social institutions as factors in control; techniques of directing social action. Prerequisite: 301 or GSB 103a.

**308-3 Statistics for Social Science.** Methods and application of statistics in the social sciences. Statistical methods in demography, ecology, testing and guidance, social problems. Examination of empirical studies in these and related areas. Prerequisite: junior standing or consent of instructor.

**312-4 Elements of Sociological Research.** Types of research. Principles and steps in research procedure. Selected techniques. Prerequisite: 308 or GSD 114d.

**320-4 Race and Minority Group Relations.** Racial and cultural contacts and conflicts; causes of prejudice; status and participation of minority groups; national and international aspects of minority problems.

**321-4 Socialization of the Individual.** The process of socialization in infancy, childhood, and adolescence; development of habits; attitudes, sentiments; emergence of the self; integration of the individual and society. Prerequisite: 301 or GSB 103a.

**322-4 Propaganda and Public Opinion.** Techniques and characteristics of propaganda; methods of measuring public opinion. Prerequisite: 301 or GSB 103a.

**332-4 Social Organization.** An examination of the determinants of social or-



ganization; intensive analysis of institutional configurations, social stratification, and systems of social control; review of significant writing. Prerequisite: 301.

**333-4 Community Organization.** Factors involved in community organization; types, aims, and objectives; community diagnosis; individual case study of specific community. Prerequisite: 301 or GSB 103a.

**335-4 Urban Sociology.** The rise, development, structure, culture, planning, and problems in early and modern cities. Prerequisite: 301 or GSB 103a.

**338-4 Industrial Sociology.** Social organization and processes within the formal and informal structure of the industrial unit; research and experimental materials concerning social determinants of morale, status, and role of the worker. Prerequisite: 301 or GSB 103a.

**340-4 The Family.** The family in historic and contemporary society; evolution of the modern family; change in family functions, structures, and roles. Prerequisite: 301 or GSB 103a.

**GSB 341-3 Marriage.**

**351-4 Sociology of Religion.** Function of religious institutions in society and their relationship to other major social institutions; role in social control and group solidarity. Prerequisite: 301 or GSB 103a.

**371-4 Population and Migration.** Characteristics of population, problems of growth, composition, distribution differential fertility, international and internal migration. Prerequisite: 301 or consent of instructor.

**372-4 Criminology.** The nature of crime; criminal statistics; causal factors; theories and procedures in prevention and treatment. Prerequisite: consent of instructor.

**373-4 Juvenile Delinquency.** Nature of juvenile delinquency; factors contributing to delinquent behavior; treatment and prevention.

**374-4 Sociology of Education.** Methods, principles, and data of sociology applied to the school situation; relation of the school to other institutions and groups. Prerequisite: 301 or GSB 103a, or consent of instructor.

**388-3 Workshop in Inter-Group Relations.** Designed to provide theoretical and practical understanding of the cultural, social, and psychological factors associated with inter-group tension. Participants concentrate their efforts on problem-solving activities related to their occupational, professional, or civic interests. Resource and consultative staff from the academic areas of education, psychology, sociology, and social work. Prerequisite: consent of instructor.

**396-1 to 5 Readings in Sociology.** Supervised reading in selected subjects. Prerequisite: consent of chairman.

**405-4 Current Sociology.** A survey of important trends in contemporary social thought. Reading, reporting, and evaluating content of leading sociological journals. Prerequisite: consent of instructor.

**406-4 Social Change.** Processes of social change in the modern world; culture lag and conflict of norms; individual and social problems arising from conflicting systems of social values and cultural norms. Prerequisite: 301 or GSB 103a.

**412-4 Sociological Research.** Application of the scientific method to sociological problems. The role of theory. Principles of good research design, measurement, sampling and analysis. Prerequisite: graduate status or consent of instructor.

**424-4 Collective Behavior.** The behavior of people in large groups; collective interstimulation and emotions; crowds, audiences, and publics; mass stimuli and mass response. Prerequisite: 321 or 322, or consent of instructor.

**426-4 Social Factors in Behavior and Personality.** How group situations and values affect behavior and shape personality; development of concepts, role-concepts, attitudes, values; theories of motivation; self-concepts; conflicting social values in relation to individual motivation. Prerequisite: 321 or Psychology 305, or consent of instructor.

**427-4 Personality and Social Adjustment.** Basic mechanisms of adjustive behavior; concepts and criteria of personal integration and social adjustment; varieties of adjustive and non-adjustive behavior; theories of personal organization and disorganization; selected problems. Prerequisite: 321 or Psychology 305 or consent of instructor.

**435-4 Social Stratification.** A comparative study of social class systems, with emphasis on the American systems. Relationships of class position to behavior in family, religion, politics, etc. Prerequisite: 301 or GSB 103a.

**438-4 Sociology of Occupations.** Natural history and institutional aspects of occupations in our society, cultural context of occupations in both primitive



and modern society, preparation for jobs, human values in work, promotion and discharge, mobility, retirement. Prerequisite: 301 or GSB 103a.

**450-4 Social Thought I: Before 1800.** The ideological basis of Western society. The classical foundations. Trends of thought from the Renaissance to the Enlightenment. Prerequisite: consent of instructor.

**451-4 Social Thought II: The Sociological Movement.** From romanticism to realism; rise and development of scientific social thought. Prerequisite: consent of instructor.

**453-4 Social Movements.** A sociological study of modern social movements; social and cultural backgrounds, forms of expression and organization; social structure of social movements, their role and function in modern society. Prerequisite: 301 or GSB 103a.

**470c-4 Urban Planning.** (See Geography 470.)

**472-4 Treatment and Prevention of Crime.** Principles of penology; history of punishment and prisons; criminal law, police function, criminal courts; the prison community; the juvenile court and related movements. Prerequisite: 372 or consent of instructor.

**483-3 Current Problems in Corrections.** An exploration of contemporary problems in the control and treatment of sentenced offenders. Prerequisite: consent of instructor.

**484-4 Survey Course in Marriage Counseling.** Survey and analysis of the field of marriage counseling; assessment of current practices and techniques in terms of contemporary sociological theory. Prerequisites: GSB 341, consent of instructor.

**485-6 Community Programs for the Prevention of Juvenile Delinquency.** Analysis of delinquency prevention in community programs administered by various agencies. A critique of existing programs and development of experimental programs. The roles of professional workers pertinent to such programs is delineated with special reference to the public school administration, counselor, the social workers, the court, probation officers, and police. Prerequisite: consent of instructor.

**489a-3 The American Correctional System.** A survey of the correctional field covering probation, institutions, and parole; their historical development, organizational structure, program content, and current problems.

**489b-4 Probation, Classification, and Parole.** An introduction to the structure and function of those elements of the correctional process primarily concerned with the evaluation, treatment, and control of offenders with particular attention to the casework components of the process.

**501-4 Survey of Sociological Theory.**

**504-4 Seminar in American Sociology.**

**506-4 Seminar in Contemporary Sociological Theory.**

**519-4 Methodological Foundations of the Social Sciences.**

**521-4 Seminar in Social Psychology.**

**534-4 Seminar in Intergroup Relations.**

**538-4 Seminar in Industrial Sociology.**

**542-4 Seminar on the Family.**

**596-2 to 12 Readings in Sociology.**

**599-2 to 9 Thesis.**

## Special Education

**351d-8 Elementary Student Teaching.**

**410a-4 Problems and Characteristics of the Emotionally Disturbed Child.** Diagnosis, screening, classroom management, placement considerations, goals, and the effective use of ancillary services. Emphasis on the understanding of maladaptive behavior through principles of learning and behavior dynamics. Observations.

**410b-4 Problems and Characteristics of the Mentally Retarded.** Objectives, curriculum, methods, and materials of instruction for slow learners. Emphasis upon the principles of learning as they can be applied to this group. Observations. Prerequisite: Counselor Education 305 or Psychology 301 or 303.

**410c-4 Problems and Characteristics of the Gifted Child.** Designed to help teachers in the identification of, and programming for, gifted and talented children. Prerequisite: Counselor Education 305 or Psychology 301 or 303.

**413a-4 Directed Observation of the Emotionally Disturbed.** Taken concurrent-

ly with 410a. Provides student observation and participation in individual work with emotionally disturbed children.

**413b-4 Directed Observation of the Educable Mentally Handicapped.** Taken concurrently with 410b. Provides student observation and participation in individual work with educable mentally handicapped children. Prerequisite: consent of instructor.

**413c-4 Directed Observation of the Gifted.** Taken concurrently with 410c. Provides student observation and participation in individual work with gifted children. Prerequisite: consent of instructor.

**414-4 The Exceptional Child.** Physical, mental, emotional, and social traits of all types of exceptional children. Effects of handicaps in learning situations. Methods of differentiation and techniques for rehabilitation. Individual case studies used; observations and field trips. Prerequisites: Counselor Education 305, Psychology 301 or 303.

**420a-4 Methods and Materials in the Education of the Emotionally Disturbed.** Offered in conjunction with practice teaching. Methods and materials needed in teaching emotionally disturbed children.

**420b-4 Methods and Materials in the Education of the Educable Mentally Handicapped.** Offered in conjunction with practice teaching. Methods and materials needed in teaching educable mentally handicapped children.

**420c-4 Methods and Materials in the Education of the Gifted.** Offered in conjunction with practice teaching. Methods and materials needed in teaching gifted children.

**427-4 Physical Education and Recreation for the Handicapped.** (See Physical Education 427.)

**428-4 Speech Correction for the Classroom Teacher.** (Same as Speech Pathology and Audiology 428.) Etiology and therapy of common speech defects. Open to in-service teachers, seniors, and graduate students in education.

**481a-4 Seminar: Emotionally Disturbed.**

**481b-4 Seminar: Educable Mentally Handicapped.**

**481c-4 Seminar: Gifted.**

**496-1 to 8 Readings and Independent Study in Special Education.** Study of a highly specific problem area in the education of exceptional children. Open only to selected seniors and graduate students. Prerequisites: 414, consent of staff.

**501-4 Special Research Problem.**

**513-4 Organization, Administration, and Supervision of Special Classes.**

**517-4 The Atypical Child and Social Agencies.**

**518-4 Workshop in Special Education.**

**570-2 Seminar: Vocational Guidance of the Handicapped.**

**571-2 Special Problems of the Handicapped I.**

**572-2 Special Problems of the Handicapped II.**

**577-4 to 12 Practicum in Special Education.**

**580-8 (4,4) Seminar: Education of Exceptional Children.**

**590-12 (4,4,4) Seminar: Mental Retardation.**

## Speech

**104-4 Training the Speaking Voice.** Designed for those students who desire to improve their voice and articulation. Prerequisite: GSD 103.

**202-3 Principles of Discussion.** Principles and methods of group discussion. Current problems used as materials for discussion.

**205-3 Principles of Argumentation and Debate.** Principles of argument, analysis, evidence, reasoning, fallacies, briefing, and delivery.

**224-4 Communicative Reading.** Study of and practice in the analysis of literature and its oral communication to an audience.

**301-4 Persuasion.** Psychological principles involved in influencing individuals and groups.

**303-4 Business and Professional Speaking.** Speaking needs of business and professional people. Technical reports and lighter types of speaking included in the types studied. Primarily for adult and extension classes.

**309-1 Forensic Activities.**

**406-4 Teaching Speech in Secondary Schools.** Philosophy of speech education, and effective teaching of speech through curricular and extra-curricular work. Prerequisite: 16 hours of speech.

**407-8 (4,4) History of American Public Address.** Critical studies of American



speakers; selected speakers and speeches which reflect the dominant social and political ideas in American history. A lecture, reading, and discussion course. May be taken separately.

**408-4 Psychology of Speech.** Nature and development of speech, its basic psychology, and the part speech plays in personality development.

**449-4 General Semantics.** Means of changing implications so that language, in spoken or written form, describes the life facts.

### Speech Pathology and Audiology

**100-0 to 2 Speech Clinic.** Designed for students with speech and hearing deviations who need individual help.

**200-4 Phonetics.** Instruction in the use of phonetic symbols to record the speech sounds of midland American English, with emphasis on ear training, and a description of place and manner of production of these sounds.

**203-4 Introduction to Speech Science.** An introduction to the science of general speech including the history of research in the field and significant experimental trends in the future. Open to all students.

**212-4 Articulatory Problems and Delayed Speech.** Designed to acquaint the student with articulatory speech defects. Diagnostic and therapeutic techniques stressed. Prerequisite: 200 or concurrent registration.

**318-4 Voice and Cleft Palate.** Voice disorders including cleft palate. Prerequisite: 212 or consent of instructor.

**319-4 Stuttering.** Deals with diagnostic and therapeutic techniques for the understanding and treatment of stuttering. Prerequisite: 212 or consent of instructor.

**405-12 (4,4,4) Practicum in Speech and Hearing Therapy.** Clinical and school procedures in speech correction and audiology. One hour of class per week, and two hours of clinical activity or work on clinically related projects for each hour of credit. Prerequisite: junior standing in department. 405a (fall) emphasizes therapeutic procedures. 405b (winter) emphasizes diagnostic techniques. 405c (spring, summer) emphasizes the utilization of forms and the preparation of reports. May be taken in any sequence.

**406-4 Techniques and Interpretation of Hearing Tests.** Principles and techniques of testing the hearing and interpreting those tests in terms of the individual's needs.

**412-4 Cerebral Palsy.** An investigation of the etiology, problems, and therapy of cerebral palsy. Prerequisite: 212 or consent of instructor.

**414-4 Anatomy and Physiology of Speech and Hearing Mechanisms.**

**415-4 Aphasia.** An investigation of the etiology, problems, and therapy of aphasia. Prerequisite: 412 or consent of instructor.

**419-4 Communication Problems of the Deaf and Hard of Hearing.** Objectives and techniques for the teaching of lip reading, speech conservation, and auditory training. Prerequisite: 406 or consent of instructor.

**428-4 Speech Correction for the Classroom Teacher.** (See Special Education 428.)

### Television-Radio

**100-4 Process and Effects of Mass Communication.** Lecture. Examination of the theories, processes, and effects of the mass media in society. Interrelationships of the media.

**200-4 Survey of Broadcasting.** Lecture. The history of broadcasting, network structure, the industry as a part of American business, the Federal Communications Commission, and related areas. Examinations and research papers. Prerequisite: 100.

**201-8 (4,4) Broadcast Writing.** A skills-content course. (a) Radio. (b) Television. Continuity forms, including features, commercials, promotional announcements, etc. The aesthetic considerations of script writing as a part of the cultural pattern of the community. Two lectures per week, extensive writing assignments. Prerequisites: (a) typing skills; (b) 201a, typing skills.

**202-4 Broadcast Performance.** A skills course. Provides extensive studio practice in all forms of broadcast talent, including both commercial and voice-over announcing, on-camera host experiences for talk, and/or public affairs presentations. Preparation of own material for studio presentation. One lecture, four



hours laboratory per week, intensive practice in studios. Prerequisite: 201-4 or demonstration of equivalent skills.

**251-3 Survey of Broadcasting.** The history of the American system of broadcasting including the industry network structure, and local station organization and economics. Various systems of foreign broadcasting.

**273-3 Fundamentals of Radio Program Production.** Techniques of producing and directing various types of radio programs with emphasis on the creative use of sound effects and music. Matters of timing, pacing, perspective, and microphone techniques.

**274-5 Basic Television Production.** Use of equipment and basic techniques in production of television programs of all types. Three one-hour lectures, one four-hour laboratory per week.

**300-5 Radio Production.** A skills-content course. Production of programs for WSIE-FM, and/or participation in preparation of programs for other broadcast agencies. Intensive use of tools of broadcasting. Work with faculty, staff, and students within the University in planning and producing programs. Three lecture-critique sessions, four laboratory hours per week. Prerequisite: 201a.

**301-5 Television Production.** A skills-content course. Practice in using television equipment for broadcast purposes. Videotape techniques, the use of film and other visual devices. Planning and production of television programs for WSIE-TV and other broadcast agencies. Use of materials and traditions of other disciplines. Three lecture-critique sessions, four laboratory hours per week. Prerequisite: 201b.

**302-4 Broadcast News.** Intensive study and practice in broadcast journalism. Writing, researching, rewriting, use of audio and video recording, 16 MM film for television, preparation of newscasts for WSIE-FM and WSIE-TV. Style, delivery, format, and related areas. Two one-hour lectures, four hours required laboratory per week. Prerequisite: 201 and/or Journalism 103.

**303-4 Broadcast Advertising.** Radio and television as advertising media and comparison with other media. Planning a campaign, production techniques, agency relationships, cost factors. Extensive preparation of commercial materials. Merchandising, promotion, interpretation of research. Case studies. Prerequisite: 200 and/or consent of instructor.

**358-4 Radio Writing.** Oral forms of writing for radio, including commercials, features, music scripting, women's and children's programs. Prerequisite: 273.

**359-4 Television Writing.** The writing of continuity forms and dramatic and documentary scripts for television with emphasis on development of ideas and plot construction. Prerequisites: 273, 358.

**393-3 Radio, Television, and Society.** The interrelation of radio and television with social habit patterns and with economic and political systems. International broadcasting. Prerequisite: 251.

**400-4 Seminar in Mass Communications: Mixed Media.** Problem-solving term projects using inter-media approaches. A team-taught course involving many members of the faculty, both in the mass communications area and the faculty at large. Invited professional guests. Prerequisites: senior standing, completion of other broadcast concentration courses.

**401-4 Criticism in the Public Arts.** Television, radio, and film programs as art forms. Comparison and contrast with other of the "lively" and fine arts. Social, moral, aesthetic, and commercial evaluations. Development of critical standards, extensive viewing and hearing programs on videotape, film, and other. Prerequisite: senior standing.

**402-4 Seminar in Broadcast Management.** Management executives from stations are "guest faculty." Management responsibility, research goals, use of capital, advertising, public relations, etc. A research paper. Prerequisites: senior standing, completion of other broadcast concentration courses.

**403-4 Seminar in Educational Broadcasting.** Application of broadcasting skills and technology to the dissemination of information in a formal or an informal manner. Intended for those who expect to continue their education on the advanced degree level in educational broadcasting, who plan to enter educational broadcasting, or for teachers who will have responsibilities in the administration or use of the broadcast media as a part of their curriculum. Prerequisite: senior standing or consent of instructor.

**404-4 Research in Broadcasting.** The application of research techniques to the broadcast media. Evaluation of research. Participation in a research project

designed by the class. Three class sessions per week, extensive arranged laboratories. Prerequisites: 200, consent of instructor.

**405-4 Television Documentary.** The filmed and/or taped documentary as a basic programming concept in American television. The use of tools, editing, sound, and videotape recording. Selection of topics, research, planning, budgeting, etc. Group preparation of filmed and/or videotaped projects for television. Prerequisites: 201b, consent of instructor, senior standing in a mass communications sequence.

**406-4 Special Events.** Broadcasting on radio and television of special events. Emphasis on remote broadcasting. Training in the preparation and production of one-time and/or occasional broadcasts. Live, audio, and videotaped program preparation. Prerequisites: 201, 300, 301.

**407-4 International Broadcasting.** Analysis of foreign systems of broadcasting and comparison with the American system. Broadcasting as an international force in social, economic, and political areas. Problems and developments in space communications, satellite broadcasting, international cooperation.

## Theater

**100-18 (0,2,4, or 6 per quarter) Theater 100.** First year work in theater. Lecture-studio. Main stage major production and/or studio theater minor production activity.

**GSC 157-5 The Dramatic Media: Theater, Cinema, and Television.**

**200-18 (0,2,4, or 6 per quarter) Theater 200.** Second year work in theater. Lecture-studio. Main stage major production and/or studio theater minor production activity. Prerequisite: 100.

**224-4 Communicative Reading.**

**300-18 (0,2,4, or 6 per quarter) Theater 300.** Third year (intermediate level) work in theater. Lecture-seminar-studio. Main stage major production and/or studio theater minor production activity. Prerequisites: 100, 200.

**GSC 354-9 (3,3,3) History of the Theater.**

**400-18 (0,2,4, or 6 per quarter) Theater 400.** Fourth year (advanced level) work in theater. Seminar-studio. Main stage repertory theater assignment. Prerequisites: 100, 200, 300.

**404-2 Workshop in Dance for In-Service Teachers.** History of dance, values of dance, interpretation of music for dance, teaching techniques and facilities, and fundamental dance movements leading to knowledge and command of dance skills.

**410-3 Children's Theater.**

## ASSOCIATE DEGREES

### Child Care Services

**101-4 Child Care.** An introduction to the development of children from infancy to year seven. Observations in preschool centers and principles of preschool education.

**103-2 Child and Nutrition.** Nutritional needs of the young child. The establishment of good food habits. The individual child and his feeding behavior.

**105-3 Language Arts.** The development of language and cognition in the preschool child. A study of appropriate literature, story telling, and creative dramatics. The presentation of projects in preschool centers and their evaluations. Prerequisite: 101.

**107-2 Health and First Aid.** The physical needs, development, and care of the young child.

**109-5 (2,3) Personal Interaction.** (a) Analysis of interpersonal relations with an emphasis on the role development in preschool centers of teachers, directors, and aides within the educational facility. (b) Analysis of interpersonal relations with an emphasis on teacher-parent and teacher-community interaction. Must be taken in a,b sequence.

**111-2 Audio-Visual Aids.** The study of films, filmstrips, and other materials suitable to the preschool child and the development of skills in operating audio-visual equipment. Artistic preparation and display of materials for children and parents.



**115-2 Art and Music.** Creative arts materials suitable for the preschool child and methods of presentation. Appropriate musical instruments and experiences. Development of projects; their presentation and evaluation in preschool centers.

**117-6 (3,3) Science and Nature.** (a) Introduction to general knowledge in biological and natural sciences that the student must know to develop experiences for the child under seven. (b) The development of projects in the natural and physical sciences appropriate to the young child; their presentation and evaluation in preschool centers. Must be taken in a,b sequence.

**203-3 Parent and Community.** Through contacts, both individual and group, the student experiences ways of working with the parents of children under seven. Some focus is given to the relationship of community agencies to educational centers and parents. Prerequisites: 101, 109, or consent of adviser.

**207-4 Administration of Preschool Centers.** Policy and ethics of the preschool center, selection of personnel, records and record keeping, the purchase of appropriate equipment, toys and materials, state regulations and licensing. Prerequisite: consent of adviser.

**209-4 Preschool Practicum.** Field experience in a preschool center combined with total program planning and child guidance. Prerequisite: sixth quarter standing or consent of adviser.

**211-4 Socially Disadvantaged Child.** Sociology of the disadvantaged and special needs of the preschool child.



# 9 / Faculty

## **Business Division**

### *Accounting*

*Associate Professors* Donald Bedel, Ph.D., C.P.A.; James Eaton, Ph.D.; Irwin Jarett, Ph.D. (*Chairman*); Richard Milles, M.S., C.P.A.; Joseph Small, M.B.A., C.P.A.

*Assistant Professors* Albert Ameiss, Ph.D.; Burton Nissing, M.S., C.P.A.; Norbert Schmidt, M.S.

*Lecturer* Michael Bitsas, B.S.

*Instructor* John Mains, B.S., C.P.A.

### *Business Administration*

*Professors* Walter Blackledge, Ph.D.; Homer Cox, Ed.D.; John Glynn, Ph.D.; Arthur Hoover, Ph.D. (*Chairman*); Kenneth Myers, Ph.D.; Ralston Scott, Ph.D.

*Associate Professors* Kumar Jain, Ph.D.; Don Livingston, Ph.D.; John Meador, Ph.D.; Stanley Sokolik, Ph.D.

*Assistant Professors* Emery Casstevens, B.S.; Billy Hudgens, M.S.

*Instructors* Russell Bauer, M.B.A.; Dale Blount, M.S.; Morris Carr, B.S.; James Miller, M.S.; Milo Pierce, M.A.; Roger Patter, M.B.A.; Luther Statler, M.S.

*Lecturers* Arnold Franke, M.S.; Richard McKinney, M.A.

### *Business Education*

*Professors* Mary Brady, Ed.D. (*Chairman*); Wilmer Maedke, Ph.D.

*Associate Professors* Gene Houser, Ed.D.; Elise Palmer, Ed.D.; Patricia Patsloff, M.S.

*Assistant Professor* Wayne Eirich, Ed.D.

*Instructor* Wayne Giles, M.S.; Max Hansel, M.A.; Mary Vaughn, B.S.

### *Economics*

*Professors* Leo Cohen, Ph.D.; Louis Drake, Ph.D.; Howard Dye, Ph.D. (*Chairman*).

*Associate Professors* Rasool Hashimi, Ph.D.; Michael Keran, Ph.D.; David Luan, Ph.D.; Ann Schwier, Ph.D.

*Assistant Professors* Albert Burger, Ph.D.; An-Yhi Lin, Ph.D.

*Lecturer* Daniel Carbaugh, M.A.

### *Management Science*

*Associate Professors* Robert Hoeke, Ph.D. (*Chairman*); Boulton Miller, Ph.D.

*Assistant Professor* Paul Tarpey, M.S.

*Lecturers* Jeanette Davenport, M.B.A.; John Ingwerson, M.B.A.; Don Rogier, M.S.; Wayne Wheelhouse, M.A.

### *Marketing*

*Professor* James Gwin, Ph.D.

Assistant Professor Warren DeBord, M.B.A.  
Lecturer Daniel Bosse, M.B.A.

### **Education Division** *Counselor Education*

*Professors* Howard V. Davis, Ed.D.; Cameron W. Meredith, Ph.D.; Daniel W. Soper, Ph.D.  
*Associate Professors* Thomas W. Hansmeier, Ed.D.; William Mermis, Ph.D.; John J. McBride, Ed.D. (*Chairman*); Dean E. Rochester, Ed.D.; Raymond Troyer, Ph.D.  
*Assistant Professors* Thomas D. Evans, Ph.D.; Virginia Moore, Ed.D.; James J. Pancrazio, Ed.D.; William R. Whitney, Ph.D.  
*Instructors* William D. Burcky, M.A.; Philip L. Eckert, M.S.; Robert S. Gil-land, M.S.; Robert M. Reed, Jr., M.S.; David R. Van Horn, M.S.

*Visiting Professor* Helen Ederle, M.A.

### *Educational Administration*

*Professors* George C. Ackerlund, Ph.D.; Robert G. Andree, Ed.D.; H. Bruce Brubaker, Ed.D.; Leonard B. Wheat, Ph.D.; W. Deane Wiley, Ph.D.  
*Associate Professors* Merrill Harmin, Ph.D.; George T. Wilkins, M.A.  
*Assistant Professor* Stefan Krchniak, Ph.D. (*Chairman*).

### *Health, Recreation, and Physical Education*

*Associate Professor* Zadia C. Herrold, P.E.D. (*Chairman*).  
*Assistant Professors* Rosemarie Archangel, Ph.D.; Arthur L. Grist, M.P.H.; Walter C. Klein, H.S.D.; Norman E. Showers, Ed.D.  
*Instructors* Louis A. Bobka, M.S.; William L. Brick, M.S.; Harry J. Gallatin, M.A.; Robert M. Guelker, M.S.; Roy E. Lee, M.A.; George C. Luedke, Jr., M.P.E.; Myrna L. Martin, M.S.; Larry N. Moehn, M.S.; Jack J. Whitted, M.S.  
*Lecturer* Sara Carpenter, B.S.

### *Instructional Materials*

*Associate Professor* Eldon Madison, Ph.D. (*Chairman*).  
*Assistant Professor* Vykuntapathi Thota, Ph.D.  
*Instructors* Robert Gilligan, M.S.; Deanna Holzberlein, M.L.S.

### *Psychology and Psychological Services*

*Professors* Alfred E. Kuenzli, Ed.D.; Lawrence E. Taliana, Ph.D.  
*Associate Professors* Erwin H. Brinkman, Ph.D. (*Chairman*); Robert O. Engbretson, Ph.D.; Eva D. Ferguson, Ph.D.; Virginia N. Harris, Ph.D.; John N. McCall, Ph.D.; Frank B. McMahon, Ph.D.; J. Robert Russo, Ed.D.; Kathryn K. Skinner, Ph.D.; Fay H. Starr, Ph.D.; Richard P. Walsh, Ph.D.  
*Assistant Professors* David L. Clodfelder, Ph.D.; Robert Daugherty, Ph.D.; Bernard J. Hartman, Ph.D.; Robert McLaughlin, Ph.D.  
*Instructor* Daniel W. Behring, M.A.

### *Special Education and Rehabilitation*

*Professor* Mark M. Tucker, Ed.D.  
*Associate Professors* Orval G. Johnson, Ph.D. (*Chairman*); Charles V. Matthews, M.A.  
*Assistant Professors* Samuel Bernstein, M.Ed.; V. Faye Shaffer, Ed.D.  
*Instructors* Hurlie M. Coose, M.Ed.; Wayne Reinking, M.S.; Saville Sax, M.S.; Brockman Schumacher, M.A.; Lynn Zenk, M.S.

### *Teacher Education and Curriculum*

*Professors* David E. Bear, Ed.D.; Ralph W. Ruffner, Ed.D.; Herbert F. A.

Smith, Ph.D.; H. Dene Southwood, Ed.D.; Francis T. Villemain, Ed.D. (Chairman); G. K. Dale Wantling, Ph.D.  
*Associate Professors* Gordon C. Bliss, Ed.D.; Henry T. Boss, Ed.D.; Regan Carpenter, Ed.D.; George H. Goodwin, Ed.D.; S. Joseph Gore, Ph.D.; Olin L. Hileman, Ed.D.; Ruth W. Richardson, Ed.D.; John Schnabel, Ed.D.; Myllan Smyers, Ed.D.; Leslie J. Wehling, Ed.D.  
*Assistant Professors* Warren L. Brown, Ed.D.; James M. Comer, Ed.D.; A. Dudley Curry, Ph.D.; Donald Darnell, Ed.D.; Austin Helsel, Ed.D.; Arthur E. Jordan, Ed.D.; Donald C. Madson, Ed.D.; Milo Pierce, Ph.D.; Roy S. Steinbrook, Ed.D.; Richard Swerdlin, Ed.D.  
*Instructors* Theodore Aranda, M.A.; Robert M. Bruker, M.Ed.; Betty Jo Kuenzli, M.S.; Dartha F. Starr, M.S.; M. Harvey Taylor, M.A.  
*Lecturer* David C. Hofmann, M.Ed.

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*Visiting Professor* Charles A. Lee, Ed.D.

## Fine Arts Division

### Art and Design

*Professor* Harry H. Hilberry, Ph.D. (Chairman).  
*Associate Professors* Evelyn T. Buddemeyer, B.S.; William F. Freund, M.S.; David C. Huntley, M.A.; Leon Jacobson, Ph.D.; Catherine E. Milovich, M.A.; John A. Richardson, Ed.D.  
*Assistant Professors* Nancy B. Altvater, Ed.D.; John Cannon, M.F.A.; Don F. Davis, M.A.; Lawrence Marcell, M.A.; Helen M. Smith, M.S.; Michael J. Smith, M.A.; Gene Trotter, B.S.  
*Instructor* John D. Randall, B.S.

### Mass Communications

*Professor* John R. Rider, Ph.D. (Chairman).  
*Assistant Professor* Edmund Hasse, M.A.  
*Instructors* Fred Criminger, M.S.; John Moormann, M.S.

### Music

*Professors* Lloyd G. Blakely, Mus.A.D. (Chairman); Warren Joseph, Ph.D.; John D. Kendall, M.A.; Dale K. Moore, M.M.; Ruth Slenczynska; Edwin B. Warren, Ph.D.  
*Associate Professors* Assen Kreteff, Ph.D.; Dorothy E. Tulloss, Mus.A.D.; Leonard Van Camp, Mus.A.D.  
*Assistant Professors* Clinton D. Fjerstad, N.M.; George K. Mellott, Ph.D.; Herbert Oberlag, M.M.; Richard K. Perry, M.Mus.; Renato Premezzi, M.S.; Robert Schieber, M.M.E.; William Tarwater, Ph.D.

### Speech and Theater

*Professors* Andrew J. Kochman, Ph.D.; Keith R. St. Onge, Ph.D.; Hollis L. White, Ph.D. (Chairman).  
*Associate Professors* Robert B. Hawkins, Ph.D.; Lynn F. Kluth, Ph.D.; James L. Robinson, M.A.; Richard L. Stope, Ph.D.; William W. Vilhauer, Ph.D.  
*Assistant Professors* Stephen M. Archer, Ph.D.; Leslie B. Branham, Jr., M.F.A.; Alcine J. Wiltz, M.F.A.  
*Instructors* Jerome Birdman, M.A.; Dan R. Salden, M.A.  
*Lecturers* Ann L. Carey, M.S.; Harold H. Haines, M.A.; Emmett L. O'Leary, M.A.

## Humanities Division

### English

*Research Professor* John F. McDermott, M.A.  
*Professors* James C. Austin, Ph.D.; James M. Brown, Ph.D.; Robert W. Duncan, Ph.D.; Ellen Frogner, Ph.D.; William T. Going, Ed.D.; Nicholas Joost,



Ph.D.; Marion A. Taylor, Ph.D.; W. Bryce VanSyoc, Ph.D.; Gordon R. Wood, Ph.D.  
*Associate Professors* John I. Ades, Ph.D. (*Chairman*); Dale S. Bailey, Ph.D.; Gertrude Drake, Ph.D.; Edwin Graham, Ph.D.; Stella Revard, Ph.D.; William Slattery, Ph.D.; Jules Zanger, Ph.D.  
*Assistant Professors* Herman Dreifke, M.A.; Daniel F. Havens, Ph.D.; Betty Hoyenga, M.A.; Robert G. Stanley, M.S.; Gladys Steinman, M.A.  
*Instructors* David Butler, M.A.; Janet D. Collins, B.A.; Elizabeth Crook, A.M.; David S. Ireland, M.A.; Barbara Lawrence, B.A.; John P. McCluskey, M.A.; William C. Meyer, M.A.; Garry Murphy, Ph.D.; Jane Pennell, M.A.; Major D. Ragain, M.A.; Barbara Schmidt, A.M.; Betty L. Spitzmiller, M.A.; Norman J. Stafford, M.A.; Raymond K. Suess, M.A.; Alvin Sullivan, M.A.; Eugene Violette, A.B.; Robert J. Ziegler, M.A.

### *Foreign Languages*

*Professors* Paul Guenther, Ph.D.; A. G. Pellegrino, Ph.D. (*Chairman*); Raymond Spahn, Ph.D.  
*Associate Professor* Helen Goode, Ph.D.  
*Assistant Professors* Betty Osiek, Ph.D.; Dan Romani, M.A.; Josef Ryberg, Ph.D.  
*Instructors* James Callanan, B.S.; Martha Heard, M.A.; Sonja Lind, M.A.; Rose Marino, Ph.D.; Alfred Pasqualucci, M.A.  
*Lecturer* Gertrude Marti, M.A.

### *Philosophy*

*Professors* George Linden, Ph.D. (*Chairman*); Gerald Runkle, Ph.D.  
*Associate Professors* William Emblom, Ph.D.; Ronald Glossop, Ph.D.; Norman Livergood, Ph.D.  
*Assistant Professors* John Barker, Ph.D.; John Broyer, Ph.D.; Charles Corr, Ph.D.; Robert Murdoch, M.A.; David Seligman, Ph.D.  
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*Assistant Professors* Major Murray J. Hancock, Jr.; Captain Edward G. Blahous.



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